Mathematica 7 Test Results

For Integration Problems of the Form $\text{Sec}[x]^m \left(A + B\,\text{Sec}[x] + C\,\text{Sec}[x]^2\right) (a + b\,\text{Sec}[x])^n$

Problems of the form $\text{Sec}[x]^m \left(A + B\,\text{Sec}[x] + C\,\text{Sec}[x]^2\right) (b\,\text{Sec}[x])^n$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\sqrt{b\,\text{Sec}[c+d\,x]},\ x,\ 3,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\sqrt{b\,\text{Sec}[c+d\,x]}}{2\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{\text{Sec}[c+d\,x]^{3/2}\sqrt{b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}\text{Sec}[c+d\,x]^{3/2}\sqrt{b\,\text{Sec}[c+d\,x]}\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$\left.\text{Cos}[2(c+d\,x)]\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)+2\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\sqrt{b\,\text{Sec}[c+d\,x]},\ x,\ 2,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\sqrt{b\,\text{Sec}[c+d\,x]}}{d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)\sqrt{b\,\text{Sec}[c+d\,x]}}{d\sqrt{\text{Sec}[c+d\,x]}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(b\,\text{Sec}[c+d\,x])^{3/2}}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 2,\ 0\right\}$$

$$\frac{b\,\text{ArcTanh}[\text{Sin}[c+d\,x]]\sqrt{b\,\text{Sec}[c+d\,x]}}{d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)(b\,\text{Sec}[c+d\,x])^{3/2}}{d\,\text{Sec}[c+d\,x]^{3/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(b\,\text{Sec}[c+d\,x])^{5/2}}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{b^2\,\text{ArcTanh}[\text{Sin}[c+d\,x]]\sqrt{b\,\text{Sec}[c+d\,x]}}{d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)(b\,\text{Sec}[c+d\,x])^{5/2}}{d\,\text{Sec}[c+d\,x]^{5/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}}{\sqrt{b\,\text{Sec}[c+d\,x]}},\ x,\ 3,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}\text{Sec}[c+d\,x]^{5/2}\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$\left.\text{Cos}[2\,(c+d\,x)]\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+2\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}}{\sqrt{b\,\text{Sec}[c+d\,x]}},\ x,\ 2,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{(b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\,\sqrt{\text{Sec}[c+d\,x]}}{b\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)\text{Sec}[c+d\,x]^{3/2}}{d\,(b\,\text{Sec}[c+d\,x])^{3/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}}{(b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]\,\sqrt{\text{Sec}[c+d\,x]}}{b^2\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

$$\frac{\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)\sqrt{\text{Sec}[c+d\,x]}}{b^2\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(b\,\text{Sec}[c+d\,x])^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$-\frac{2\,b^2\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{2\,b\,(5\,A+3\,C)\,\sqrt{b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,C\,(b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{5\,b\,d}$$

$$-\left(4\,i\,e^{-i\,(c+d\,x)}\,\text{Cos}[c+d\,x]^3\left(-5\,A\left(1+e^{2\,i\,(c+d\,x)}\right)^2-C\left(3+8\,e^{2\,i\,(c+d\,x)}+e^{4\,i\,(c+d\,x)}\right)+(5\,A+3\,C)\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(b\,\text{Sec}[c+d\,x])^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,d\left(1+e^{2\,i\,(c+d\,x)}\right)^2(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{b\,\text{Sec}[c+d\,x]}},\,x,\,3,\,0\right\}$$

$$\frac{2\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{2\,C\,\text{Tan}[c+d\,x]}{d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

$$-\left(i\,e^{-2\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)\left(A-2\,C+A\,e^{2\,i\,(c+d\,x)}+2\,(-A+C)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\sqrt{b\,\text{Sec}[c+d\,x]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{(b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,3,\,0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\text{Sin}[c+d\,x]}{5\,b\,d\,(b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{\frac{8\,i\,(3\,A+5\,C)\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{\sqrt{1+e^{2\,i\,(c+d\,x)}}}+2\,(-2\,i\,(3\,A+5\,C)+A\,\text{Sin}[2\,(c+d\,x)])}{10\,b^2\,d\,\sqrt{b\,\text{Sec}[c+d\,x]}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$-\frac{2\,b^2\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{2\,b^2\,B\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{b\,\text{Sec}[c+d\,x]}}+\frac{2\,b\,(5\,A+3\,C)\,\sqrt{b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,B\,(b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,C\,(b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{5\,b\,d}$$

$$\left(2\,e^{-i\,(c+d\,x)}\,\text{Cos}[c+d\,x]^3\left(\frac{5\sqrt{2}\,B\left(1+e^{2\,i\,(c+d\,x)}\right)^3\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-2\,i\left(-15\,A-9\,C-5\,B\,e^{i\,(c+d\,x)}-30\,A\,e^{2\,i\,(c+d\,x)}-24\,C\,e^{2\,i\,(c+d\,x)}-15\,A\,e^{4\,i\,(c+d\,x)}-3\,C\,e^{4\,i\,(c+d\,x)}+5\,B\,e^{5\,i\,(c+d\,x)}+3\,(5\,A+3\,C)\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\right)(b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(15\,d\left(1+e^{2\,i\,(c+d\,x)}\right)^2(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$-\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}{d}+\frac{2\,(3\,A+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{2\,B\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}+\frac{2\,C\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\sqrt{b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{d\,\left(-1+e^{2\,i\,c}\right)\,\mathrm{Sec}[c+d\,x]^{5/2}}4\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\left(3\,B\,\left(1+e^{2\,i\,(c+d\,x)}\right)+3\,B\,\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+(3\,A+C)\,e^{i\,(c+d\,x)}\,\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\,\frac{1}{2},\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{4\,\mathrm{Cos}[c+d\,x]^2\,(3\,B\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+C\,\mathrm{Tan}[c+d\,x])}{d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{b\,\mathrm{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$\frac{2\,(A-C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,B\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,C\,\mathrm{Tan}[c+d\,x]}{d\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}\left(-\frac{2\,\mathrm{Cos}[c+d\,x]\,((A-2\,C)\,\mathrm{Cos}[d\,x]+A\,\mathrm{Cos}[2\,c+d\,x])\,\mathrm{Csc}[c]}{d}+\frac{4\,B\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{2\,\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(b\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,B\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,(A+3\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{3\,b\,d\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}$$

$$\left(2\left(6\,i\,B\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]-2\,i\,(A+3\,C)\,e^{i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\sqrt{1+e^{2\,i\,(c+d\,x)}}\,(-3\,i\,B+A\,\mathrm{Sin}[c+d\,x])\right)\right)\Big/\left(3\,b\,d\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(b\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,B\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{5\,b\,d\,(b\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{2\,B\,\mathrm{Sin}[c+d\,x]}{3\,b^2\,d\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}$$

$$\left(\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{20\,B\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{72\,i\,A\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d\,\left(-1+e^{2\,i\,c}\right)\left(1+e^{2\,i\,(c+d\,x)}\right)}+\frac{120\,i\,C\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d\,\left(-1+e^{2\,i\,c}\right)\left(1+e^{2\,i\,(c+d\,x)}\right)}+\frac{4\,(-3\,(3\,A+5\,C)\,\mathrm{Cot}[c]+(5\,B+3\,A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x])}{d}\right)\right)\Big/\left(15\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(b\,\mathrm{Sec}[c+d\,x])^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(b\,\mathrm{Sec}[c+d\,x])^{7/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{6\,B\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,b^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,(5\,A+7\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,b^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{7\,b\,d\,(b\,\mathrm{Sec}[c+d\,x])^{5/2}}+\frac{2\,B\,\mathrm{Sin}[c+d\,x]}{5\,b^2\,d\,(b\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{2\,(5\,A+7\,C)\,\mathrm{Sin}[c+d\,x]}{21\,b^3\,d\,\sqrt{b\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{420\,b^4\,d}\sqrt{b\,\mathrm{Sec}[c+d\,x]}\left(504\,i\,B\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]-40\,i\,(5\,A+7\,C)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+2\,\mathrm{Cos}[c+d\,x]\,(5\,(23\,A+28\,C)\,\mathrm{Sin}[c+d\,x]+3\,(-84\,i\,B+14\,B\,\mathrm{Sin}[2\,(c+d\,x)]+5\,A\,\mathrm{Sin}[3\,(c+d\,x)]))\right)$$

Problems of the form $\mathbf{Sec[x]^m \left(A + B\,Sec[x] + C\,Sec[x]^2\right) (a + b\,Sec[x])^n}$ when $\mathbf{a^2 = b^2}$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x]),\ x,\ 3,\ 0\}$

$$\frac{a\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a\,\text{Tan}[c+d\,x]}{d}+\frac{a\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}a\left(-2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$\left.\frac{1}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{1}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+4\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x]),\ x,\ 2,\ 0\}$

$$\frac{a\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a\,\text{Tan}[c+d\,x]}{d}$$

$$\frac{a\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Tan}[c+d\,x]\right)}{d}$$

Valid but unnecessarily complicated antiderivative:

$\{a+a\,\text{Sec}[c+d\,x],\ x,\ 2,\ 0\}$

$$a\,x+\frac{a\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}$$

$$\frac{a\left(d\,x-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)}{d}$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]^4\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 6,\ 0\}$

$$\frac{3\,a^2\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{4\,d}+\frac{6\,a^2\,\text{Tan}[c+d\,x]}{5\,d}+\frac{3\,a^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{4\,d}+$$
$$\frac{3\,a^2\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{5\,d}+\frac{a^2\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{2\,d}+\frac{a^2\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{1}{640\,d}a^2\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5\left(75\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+75\,\mathrm{Cos}[4\,c+3\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$15\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+15\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+$$
$$150\,\mathrm{Cos}[d\,x]\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)+$$
$$150\,\mathrm{Cos}[2\,c+d\,x]\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)-$$
$$75\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-75\,\mathrm{Cos}[4\,c+3\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$
$$15\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-15\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$
$$400\,\mathrm{Sin}[d\,x]+80\,\mathrm{Sin}[2\,c+d\,x]-140\,\mathrm{Sin}[c+2\,d\,x]-140\,\mathrm{Sin}[3\,c+2\,d\,x]-$$
$$\left.240\,\mathrm{Sin}[2\,c+3\,d\,x]-30\,\mathrm{Sin}[3\,c+4\,d\,x]-30\,\mathrm{Sin}[5\,c+4\,d\,x]-48\,\mathrm{Sin}[4\,c+5\,d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])^2,\ x,\ 5,\ 0\right\}$$

$$\frac{7\,a^2\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{4\,a^2\,\mathrm{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{7\,a^2\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+\frac{2\,a^2\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{a^2\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$
$$-\frac{7\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2}{32\,d}+$$
$$\frac{7\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2}{32\,d}+$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2}{64\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(29\,\mathrm{Cos}\left[\frac{c}{2}\right]-13\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{192\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}-$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2}{64\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(-29\,\mathrm{Cos}\left[\frac{c}{2}\right]-13\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{192\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$
$$\frac{\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 4,\ 0\}$$

$$\frac{a^2\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{5\,a^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{d}+\frac{a^2\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$-\frac{1}{24\,d}\,a^2\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3$$

$$\Bigg(3\,\text{Cos}[2\,c+3\,d\,x]\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+3\,\text{Cos}[4\,c+3\,d\,x]\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$9\,\text{Cos}[d\,x]\,\Big(\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+$$
$$9\,\text{Cos}[2\,c+d\,x]\,\Big(\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)-$$
$$3\,\text{Cos}[2\,c+3\,d\,x]\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-3\,\text{Cos}[4\,c+3\,d\,x]\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-$$
$$24\,\text{Sin}[d\,x]+6\,\text{Sin}[2\,c+d\,x]-6\,\text{Sin}[c+2\,d\,x]-6\,\text{Sin}[3\,c+2\,d\,x]-10\,\text{Sin}[2\,c+3\,d\,x]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 3,\ 0\}$$

$$\frac{3\,a^2\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{2\,a^2\,\text{Tan}[c+d\,x]}{d}+\frac{a^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{16\,d}a^2\,(1+\text{Cos}[c+d\,x])^2\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^4$$
$$\Bigg(-6\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+6\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$8\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]+\frac{1}{\Big(\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big)^2}-\frac{1}{\Big(\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big)^2}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 2,\ 0\}$$

$$a^2\,x+\frac{2\,a^2\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a^2\,\text{Tan}[c+d\,x]}{d}$$

$$\frac{1}{4\,d}a^2\,(1+\text{Cos}[c+d\,x])^2\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^4$$
$$\Bigg(d\,x-2\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+2\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^3,\ x,\ 6,\ 0\}$$

$$\frac{13\,a^3\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{38\,a^3\,\text{Tan}[c+d\,x]}{15\,d}+\frac{13\,a^3\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{19\,a^3\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{11\,a^3\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{20\,d}+\frac{a^2\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{1}{3840\,d}\,a^3\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5$$
$$\Big(975\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+975\,\mathrm{Cos}[4\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$195\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$195\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$1950\,\mathrm{Cos}[d\,x]\,\Big(\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+$$
$$1950\,\mathrm{Cos}[2\,c+d\,x]\,\Big(\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)-$$
$$975\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-975\,\mathrm{Cos}[4\,c+3\,d\,x]$$
$$\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-195\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-$$
$$195\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-4640\,\mathrm{Sin}[d\,x]+1440\,\mathrm{Sin}[2\,c+d\,x]-1500\,\mathrm{Sin}[c+2\,d\,x]-$$
$$1500\,\mathrm{Sin}[3\,c+2\,d\,x]-3040\,\mathrm{Sin}[2\,c+3\,d\,x]-390\,\mathrm{Sin}[3\,c+4\,d\,x]-390\,\mathrm{Sin}[5\,c+4\,d\,x]-608\,\mathrm{Sin}[4\,c+5\,d\,x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^3,\ x,\ 5,\ 0\}$$

$$\frac{15\,a^3\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{5\,a^3\,\mathrm{Tan}[c+d\,x]}{2\,d}+\frac{5\,a^3\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{a\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{4\,d}+\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{15\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3}{64\,d}+$$

$$\frac{15\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3}{64\,d}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3}{128\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{16\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(19\,\mathrm{Cos}\left[\frac{c}{2}\right]-11\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{128\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{3\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{8\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}-$$

$$\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3}{128\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{16\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(-19\,\mathrm{Cos}\left[\frac{c}{2}\right]-11\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{128\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{3\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{8\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^3,\ x,\ 4,\ 0\}$$

$$\frac{5\,a^3\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{10\,a^3\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{5\,a^3\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{a\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{48\,d}\,a^3\,(1+\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$
$$\left(15\left(-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\left(25\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+10\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+11\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]\right)\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+$$
$$\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c]+(1+9\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\mathrm{Sec}[c+d\,x])^3,\ x,\ 3,\ 0\}$$

$$a^3\,x+\frac{7\,a^3\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{5\,a^3\,\mathrm{Tan}[c+d\,x]}{2\,d}+\frac{a^2\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{32} a^3 (1+\text{Cos}[c+d x])^3 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^6 \left(4 x-\frac{14 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d}+\frac{14 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d}+\frac{12 \text{Sec}[c] \text{Sec}[c+d x] \text{Sin}[d x]}{d}+\frac{1}{d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{1}{d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x] (a+a \text{Sec}[c+d x])^3, x, 4, 0\}$$

$$3 a^3 x+\frac{3 a^3 \text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{a^2 (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{d}$$

$$\frac{1}{8} a^3 (1+\text{Cos}[c+d x])^3 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^6 \left(3 x-\frac{3 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d}+\frac{3 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d}+\frac{\text{Cos}[d x] \text{Sin}[c]}{d}+\frac{\text{Cos}[c] \text{Sin}[d x]}{d}+\frac{\text{Sin}\left[\frac{d x}{2}\right]}{d\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}+\frac{\text{Sin}\left[\frac{d x}{2}\right]}{d\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d x]^2 (a+a \text{Sec}[c+d x])^4, x, 6, 0\}$$

$$\frac{7 a^4 \text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{14 a^4 \text{Tan}[c+d x]}{3 d}+\frac{7 a^4 \text{Sec}[c+d x] \text{Tan}[c+d x]}{6 d}+\frac{7 a^2 (a+a \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{15 d}+\frac{a (a+a \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{5 d}+\frac{(a+a \text{Sec}[c+d x])^4 \text{Tan}[c+d x]}{5 d}$$

$$-\frac{1}{960\,d}\,a^4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5$$
$$\Big(525\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+525\,\mathrm{Cos}[4\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$105\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$105\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$1050\,\mathrm{Cos}[d\,x]\,\Big(\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+$$
$$1050\,\mathrm{Cos}[2\,c+d\,x]\,\Big(\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)-$$
$$525\,\mathrm{Cos}[2\,c+3\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-525\,\mathrm{Cos}[4\,c+3\,d\,x]$$
$$\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-105\,\mathrm{Cos}[4\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-$$
$$105\,\mathrm{Cos}[6\,c+5\,d\,x]\,\mathrm{Log}\Big[\mathrm{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\mathrm{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-2360\,\mathrm{Sin}[d\,x]+960\,\mathrm{Sin}[2\,c+d\,x]-$$
$$660\,\mathrm{Sin}[c+2\,d\,x]-660\,\mathrm{Sin}[3\,c+2\,d\,x]-1600\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$60\,\mathrm{Sin}[4\,c+3\,d\,x]-210\,\mathrm{Sin}[3\,c+4\,d\,x]-210\,\mathrm{Sin}[5\,c+4\,d\,x]-332\,\mathrm{Sin}[4\,c+5\,d\,x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^4,\ x,\ 5,\ 0\}$$

$$\frac{35\,a^4\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{35\,a^4\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{35\,a^4\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{7\,a^2\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{12\,d}+\frac{a\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{35\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4}{128\,d}+$$

$$\frac{35\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4}{128\,d}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4}{256\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{24\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(97\,\mathrm{Cos}\left[\frac{c}{2}\right]-65\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{768\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{5\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}-$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4}{256\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^4}+\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{24\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(-97\,\mathrm{Cos}\left[\frac{c}{2}\right]-65\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{768\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{5\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^4,\ x,\ 4,\ 0\right\}$$

$$a^4\,x+\frac{6\,a^4\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{5\,a^4\,\mathrm{Tan}[c+d\,x]}{d}+\frac{4\,a^3\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{a^2\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{16} x \operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 -$$

$$\frac{3 \operatorname{Cos}[c+d x]^4 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4}{8 d} +$$

$$\frac{3 \operatorname{Cos}[c+d x]^4 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4}{8 d} +$$

$$\frac{\operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \operatorname{Sin}\left[\frac{d x}{2}\right]}{96 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^3} +$$

$$\frac{\operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \left(13 \operatorname{Cos}\left[\frac{c}{2}\right]-11 \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{192 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2} +$$

$$\frac{5 \operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \operatorname{Sin}\left[\frac{d x}{2}\right]}{12 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)} + \frac{\operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \operatorname{Sin}\left[\frac{d x}{2}\right]}{96 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^3} +$$

$$\frac{\operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \left(-13 \operatorname{Cos}\left[\frac{c}{2}\right]-11 \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{192 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2} +$$

$$\frac{5 \operatorname{Cos}[c+d x]^4 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \operatorname{Sec}[c+d x])^4 \operatorname{Sin}\left[\frac{d x}{2}\right]}{12 d \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\operatorname{Cos}[c+d x] (a+a \operatorname{Sec}[c+d x])^4, x, 5, 0\}$$

$$4 a^4 x + \frac{13 a^4 \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d} - \frac{5 a^4 \operatorname{Sin}[c+d x]}{2 d} + \frac{3 a^3 (a+a \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{d} + \frac{a^2 (a+a \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{2 d}$$

$$\frac{1}{64} a^4 (1+\operatorname{Cos}[c+d x])^4 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^8$$

$$\left(16 x - \frac{26 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d} + \frac{26 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d} + \frac{4 \operatorname{Cos}[d x] \operatorname{Sin}[c]}{d} + \right.$$

$$\frac{4 \operatorname{Cos}[c] \operatorname{Sin}[d x]}{d} + \frac{1}{d \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2} + \frac{16 \operatorname{Sin}\left[\frac{d x}{2}\right]}{d \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)} -$$

$$\left. \frac{1}{d \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2} + \frac{16 \operatorname{Sin}\left[\frac{d x}{2}\right]}{d \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)} \right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\operatorname{Cos}[c+d x]^2 (a+a \operatorname{Sec}[c+d x])^4, x, 5, 0\}$$

$$\frac{13 a^4 x}{2} + \frac{4 a^4 \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{d} + \frac{5 a^4 \operatorname{Sin}[c+d x]}{2 d} +$$

$$\frac{a^3 (a+a \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{2 d} + \frac{a^2 \operatorname{Cos}[c+d x] (a+a \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{2 d}$$

$$\frac{1}{64} a^4 (1+\text{Cos}[c+d x])^4 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^8 \left(26 x - \frac{16 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d} + \frac{16 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d} + \frac{16 \text{Cos}[d x] \text{Sin}[c]}{d} + \frac{\text{Cos}[2 d x] \text{Sin}[2 c]}{d} + \frac{16 \text{Cos}[c] \text{Sin}[d x]}{d} + \frac{\text{Cos}[2 c] \text{Sin}[2 d x]}{d} + \frac{4 \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)} + \frac{4 \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^5}{a+a \text{Sec}[c+d x]}, x, 5, 0\right\}$$

$$-\frac{3 \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a d} + \frac{8 \text{Tan}[c+d x]}{3 a d} - \frac{3 \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a d} + \frac{4 \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 a d} - \frac{\text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{3 a d (1+\text{Sec}[c+d x])} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \left(6 \text{Sec}\left[\frac{c}{2}\right] \text{Sin}\left[\frac{d x}{2}\right] + \frac{1}{8} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c] \text{Sec}[c+d x]^3 \left(9 \text{Cos}[2 c+3 d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] + 9 \text{Cos}[4 c+3 d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] + 27 \text{Cos}[d x] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right) + 27 \text{Cos}[2 c+d x] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right) - 9 \text{Cos}[2 c+3 d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] - 9 \text{Cos}[4 c+3 d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] + 48 \text{Sin}[d x] - 12 \text{Sin}[2 c+d x] - 6 \text{Sin}[c+2 d x] - 6 \text{Sin}[3 c+2 d x] + 20 \text{Sin}[2 c+3 d x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4}{a+a \text{Sec}[c+d x]}, x, 4, 0\right\}$$

$$\frac{3 \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a d} - \frac{2 \text{Tan}[c+d x]}{a d} + \frac{3 \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a d} - \frac{\text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{2 a d (1+\text{Sec}[c+d x])} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \left(-4 \text{Sec}\left[\frac{c}{2}\right] \text{Sin}\left[\frac{d x}{2}\right] + \text{Cos}\left[\frac{1}{2}(c+d x)\right] \left(-6 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] + 6 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] - 4 \text{Sec}[c] \text{Sec}[c+d x] \text{Sin}[d x] + \frac{1}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2} - \frac{1}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3}{a+a \text{Sec}[c+d x]}, x, 3, 0\right\}$$

$$-\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}+\frac{2\,\text{Tan}[c+d\,x]}{a\,d}-\frac{\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}$$

$$2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\left(\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\frac{2\,\text{Sin}\left[\frac{3\,c}{2}\right]}{\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{5\,c}{2}\right]}+\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}-\frac{\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{a+a\,\text{Sec}[c+d\,x]},\,x,\,2,\,0\right\}$$

$$\frac{x}{a}-\frac{\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]-2\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,a\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$-\frac{x}{a}+\frac{2\,\text{Sin}[c+d\,x]}{a\,d}-\frac{\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-2\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-2\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+5\,\text{Sin}\left[\frac{d\,x}{2}\right]+\text{Sin}\left[c+\frac{d\,x}{2}\right]+\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]\right)}{4\,a\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,3,\,0\right\}$$

$$\frac{\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^2\,d}-\frac{\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{4\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{3 a^2 d (1+\text{Sec}[c+d x])^2} 2 \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x]^2 \left(6 \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)+\text{Sec}\left[\frac{c}{2}\right] \text{Sin}\left[\frac{d x}{2}\right]+8 \text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}\left[\frac{c}{2}\right] \text{Sin}\left[\frac{d x}{2}\right]+\text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Tan}\left[\frac{c}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]}{(a+a \text{Sec}[c+d x])^2}, x, 4, 0\right\}$$

$$-\frac{2 x}{a^2}+\frac{10 \text{Sin}[c+d x]}{3 a^2 d}-\frac{\text{Sin}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}-\frac{2 \text{Sin}[c+d x]}{a d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^2 d} \text{Sec}\left[\frac{c}{2}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^3 \left(-36 d x \text{Cos}\left[\frac{d x}{2}\right]-36 d x \text{Cos}\left[c+\frac{d x}{2}\right]-12 d x \text{Cos}\left[c+\frac{3 d x}{2}\right]-12 d x \text{Cos}\left[2 c+\frac{3 d x}{2}\right]+66 \text{Sin}\left[\frac{d x}{2}\right]-30 \text{Sin}\left[c+\frac{d x}{2}\right]+41 \text{Sin}\left[c+\frac{3 d x}{2}\right]+9 \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+3 \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+3 \text{Sin}\left[3 c+\frac{5 d x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^6}{(a+a \text{Sec}[c+d x])^3}, x, 6, 0\right\}$$

$$\frac{13 \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a^3 d}-\frac{152 \text{Tan}[c+d x]}{15 a^3 d}+\frac{13 \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a^3 d}-\frac{\text{Sec}[c+d x]^4 \text{Tan}[c+d x]}{5 d (a+a \text{Sec}[c+d x])^3}-\frac{11 \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{15 a d (a+a \text{Sec}[c+d x])^2}-\frac{76 \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{15 a^2 d (a+a \text{Sec}[c+d x])}$$

$$-\frac{1}{480 a^3 d (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x]^3 \left(24960 \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)+\text{Sec}\left[\frac{c}{2}\right] \text{Sec}[c] \text{Sec}[c+d x]^2 \left(-1235 \text{Sin}\left[\frac{d x}{2}\right]+3805 \text{Sin}\left[\frac{3 d x}{2}\right]-4329 \text{Sin}\left[c-\frac{d x}{2}\right]+1989 \text{Sin}\left[c+\frac{d x}{2}\right]-3575 \text{Sin}\left[2 c+\frac{d x}{2}\right]-475 \text{Sin}\left[c+\frac{3 d x}{2}\right]+2005 \text{Sin}\left[2 c+\frac{3 d x}{2}\right]-2275 \text{Sin}\left[3 c+\frac{3 d x}{2}\right]+2673 \text{Sin}\left[c+\frac{5 d x}{2}\right]+105 \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+1593 \text{Sin}\left[3 c+\frac{5 d x}{2}\right]-975 \text{Sin}\left[4 c+\frac{5 d x}{2}\right]+1325 \text{Sin}\left[2 c+\frac{7 d x}{2}\right]+255 \text{Sin}\left[3 c+\frac{7 d x}{2}\right]+875 \text{Sin}\left[4 c+\frac{7 d x}{2}\right]-195 \text{Sin}\left[5 c+\frac{7 d x}{2}\right]+304 \text{Sin}\left[3 c+\frac{9 d x}{2}\right]+90 \text{Sin}\left[4 c+\frac{9 d x}{2}\right]+214 \text{Sin}\left[5 c+\frac{9 d x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^7}{(a+a \text{Sec}[c+d x])^4}, x, 7, 0\right\}$$

$$\frac{21\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^4\,d}-\frac{576\,\text{Tan}[c+d\,x]}{35\,a^4\,d}+\frac{21\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^4\,d}-\frac{\text{Sec}[c+d\,x]^5\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-$$
$$\frac{2\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{43\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{35\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{288\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{35\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$-\frac{1}{2240\,a^4\,d\,(1+\text{Sec}[c+d\,x])^4}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^4$$
$$\left(376\,320\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\left(-24\,402\,\text{Sin}\left[\frac{d\,x}{2}\right]+55\,556\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-61\,054\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+33\,614\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-\right.$$
$$51\,842\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-12\,460\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+33\,716\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-34\,300\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+39\,788\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]-$$
$$2940\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+26\,068\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-16\,660\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+21\,351\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$
$$1295\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+14\,911\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-5145\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+7329\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+1225\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+$$
$$\left.5369\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-735\,\text{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]+1152\,\text{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]+280\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+872\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^6}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,6,\,0\right\}$$
$$-\frac{4\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^4\,d}+\frac{664\,\text{Tan}[c+d\,x]}{105\,a^4\,d}-\frac{\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-$$
$$\frac{12\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{88\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{4\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$\frac{1}{1680\,a^4\,d\,(1+\text{Sec}[c+d\,x])^4}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^4$$
$$\left(107\,520\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\left(-10\,780\,\text{Sin}\left[\frac{d\,x}{2}\right]+18\,788\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-20\,524\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+14\,644\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-\right.$$
$$16\,660\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-4690\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+14\,378\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-9100\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+11\,668\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]-$$
$$630\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+9358\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-2940\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+4228\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+315\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.3493\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-420\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+664\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+105\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+559\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,6,\,0\right\}$$
$$-\frac{4\,x}{a^4}+\frac{664\,\text{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{\text{Sin}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-$$
$$\frac{12\,\text{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{88\,\text{Sin}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{4\,\text{Sin}[c+d\,x]}{a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{26880\,a^4\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^7\left(29400\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+29400\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+17640\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+17640\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+5880\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+5880\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+840\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+840\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-60830\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+46130\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-46116\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+18060\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-19292\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+2100\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-3791\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-735\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-105\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-105\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]}{(a+a\,\mathrm{Sec}[c+d\,x])^5},\ x,\ 7,\ 0\right\}$$

$$-\frac{5\,x}{a^5}+\frac{496\,\mathrm{Sin}[c+d\,x]}{63\,a^5\,d}-\frac{\mathrm{Sin}[c+d\,x]}{9\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^5}-\frac{5\,\mathrm{Sin}[c+d\,x]}{21\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{29\,\mathrm{Sin}[c+d\,x]}{63\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{67\,\mathrm{Sin}[c+d\,x]}{63\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{5\,\mathrm{Sin}[c+d\,x]}{a^4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{64512\,a^5\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^9\left(79380\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+79380\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+52920\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+52920\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+22680\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+22680\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+5670\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+5670\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+630\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{9\,d\,x}{2}\right]+630\,d\,x\,\mathrm{Cos}\left[5\,c+\frac{9\,d\,x}{2}\right]-175014\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+143010\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-138726\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+73290\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-70389\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+20475\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-21141\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+1575\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-3091\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-567\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-63\,\mathrm{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]-63\,\mathrm{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]},\ x,\ 1,\ 0\right\}$$

$$\frac{2\sqrt{a}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{d}$$

$$\frac{1}{d} 8 \left(3+2\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]^4 \sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}} \left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2}, -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d x)\right]^2} \text{Sec}\left[\frac{1}{2}(c+d x)\right]$$

$$\text{Sec}[c+d x]\sqrt{a(1+\text{Sec}[c+d x])}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d x]\sqrt{a+a\,\text{Sec}[c+d x]}, x, 2, 0\right\}$$

$$\frac{\sqrt{a}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{d}+\frac{a\,\text{Sin}[c+d x]}{d\sqrt{a+a\,\text{Sec}[c+d x]}}$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]\sqrt{a(1+\text{Sec}[c+d x])}\left(-\frac{1}{2}\text{Sin}\left[\frac{1}{2}(c+d x)\right]+\frac{1}{2}\text{Sin}\left[\frac{3}{2}(c+d x)\right]\right)}{d}-$$

$$\frac{1}{d} 4 \left(-3-2\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]^4 \sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}} \left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2}, -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d x)\right]^2} \text{Sec}\left[\frac{1}{2}(c+d x)\right]$$

$$\text{Sec}[c+d x]\sqrt{a(1+\text{Sec}[c+d x])}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d x]^2\sqrt{a+a\,\text{Sec}[c+d x]}, x, 3, 0\right\}$$

$$\frac{3\sqrt{a}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{4d}+\frac{3a\,\text{Sin}[c+d x]}{4d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{a\,\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{2d\sqrt{a+a\,\text{Sec}[c+d x]}}$$

$$\frac{1}{8\,d}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\Bigg(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+$$

$$\mathrm{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+24\left(-2-\frac{3}{\sqrt{2}}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\;\mathrm{Sec}[c+d\,x]\sqrt{3-2\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^3\sqrt{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$\frac{5\sqrt{a}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{5\,a\,\mathrm{Sin}[c+d\,x]}{8\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{5\,a\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,d}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\Bigg(-11\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+16\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+3\,\mathrm{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+$$

$$2\,\mathrm{Sin}\left[\frac{7}{2}\,(c+d\,x)\right]-120\left(2+\frac{3}{\sqrt{2}}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\;\mathrm{Sec}[c+d\,x]\sqrt{3-2\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^4\sqrt{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$\frac{35\sqrt{a}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{64\,d}+\frac{35\,a\,\mathrm{Sin}[c+d\,x]}{64\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{35\,a\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{96\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{7\,a\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{24\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sin}[c+d\,x]}{4\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{384\,d}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\Bigg(-41\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+88\,\mathrm{Sin}\left[\frac{3}{2}(c+d\,x)\right]+45\,\mathrm{Sin}\left[\frac{5}{2}(c+d\,x)\right]+8\,\mathrm{Sin}\left[\frac{7}{2}(c+d\,x)\right]+$$

$$6\,\mathrm{Sin}\left[\frac{9}{2}(c+d\,x)\right]-840\left(2+\frac{3}{\sqrt{2}}\right)\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\sqrt{2},-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}\;\mathrm{Sec}[c+d\,x]\sqrt{3-2\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{a-a\,\mathrm{Sec}[c+d\,x]},\,x,\,1,\,0\right\}$$

$$\frac{2\sqrt{a}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}}\right]}{d}$$

$$-\Bigg(\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}\left[\frac{1}{2}(c+d\,x)\right]\Bigg(\mathrm{ArcTanh}\left[\left(\mathrm{Cos}\left[\frac{c}{2}\right]+i\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)\sqrt{\left(1+e^{2\,i\,d\,x}\right)\mathrm{Cos}[c]+i\left(-1+e^{2\,i\,d\,x}\right)\mathrm{Sin}[c]}\right]+$$

$$\mathrm{Log}\left[2\left(e^{i\,d\,x}\,\mathrm{Cos}\left[\frac{c}{2}\right]+i\,e^{i\,d\,x}\,\mathrm{Sin}\left[\frac{c}{2}\right]+\sqrt{\left(1+e^{2\,i\,d\,x}\right)\mathrm{Cos}[c]+i\left(-1+e^{2\,i\,d\,x}\right)\mathrm{Sin}[c]}\right)\right]\Bigg)$$

$$\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}\left(\mathrm{Cos}\left[\frac{d\,x}{2}\right]+i\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)\Bigg)\Big/\left(d\sqrt{\left(1+e^{2\,i\,d\,x}\right)\mathrm{Cos}[c]+i\left(-1+e^{2\,i\,d\,x}\right)\mathrm{Sin}[c]}\right)$$

Incorrect antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2},\,x,\,3,\,0\right\}$$

$$\frac{2\,a^{3/2}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{d}+\frac{2\,a^2\,\mathrm{Tan}[c+d\,x]}{d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$-\frac{1}{d}4\left(-3-2\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}+$$

$$\frac{\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{d}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^{3/2},\,x,\,4,\,0\right\}$$

$$\frac{3\,a^{3/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{d}+\frac{a^2\,\text{Sin}[c+d\,x]}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{d}\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}$$

$$\left(\frac{1}{2}\text{Cos}[c+d\,x]^2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]-6\left(-3-2\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\right.$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left.\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{3/2},\,x,\,4,\,0\right\}$$

$$\frac{7\,a^{3/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{7\,a^2\,\text{Sin}[c+d\,x]}{4\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{a\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(6\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)}{4\,d}+$$

$$\frac{1}{\left(8-6\sqrt{2}\right)d}\,7\,\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\sqrt{3-2\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2},\,x,\,5,\,0\right\}$$

$$\frac{11\,a^{3/2}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{11\,a^2\,\mathrm{Sin}[c+d\,x]}{8\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{11\,a^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{a\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(26\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+9\,\mathrm{Sin}\left[\frac{3}{2}(c+d\,x)\right]+2\,\mathrm{Sin}\left[\frac{5}{2}(c+d\,x)\right]\right)}{24\,d}-$$

$$\frac{1}{8\,d}\,11\left(4+3\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\mathrm{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\sqrt{3-2\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2},\,x,\,4,\,0\right\}$$

$$\frac{2\,a^{5/2}\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{d}+\frac{14\,a^3\,\mathrm{Tan}[c+d\,x]}{3\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{d}\,\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(\frac{1}{6}\,(1+8\,\text{Cos}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-2\left(-3-2\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\right.$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left.\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\,x,\,3,\,0\right\}$$

$$\frac{5\,a^{5/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{d}-\frac{a^3\,\text{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{1}{d}\,\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\frac{1}{8}\,\text{Cos}[c+d\,x]\,\left(3\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)-\right.$$

$$\frac{5}{2}\left(4+3\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}$$

$$\left.\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\,x,\,3,\,0\right\}$$

$$\frac{19\,a^{5/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{9\,a^3\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Cos}[c+d\,x]\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-\frac{9}{32}\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{5}{16}\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]+\frac{1}{32}\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]\right)}{d}+$$

$$\frac{1}{\left(16-12\sqrt{2}\right)d}\,19\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\,x,\,4,\,0\right\}$$

$$\frac{25\,a^{5/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{25\,a^3\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{13\,a^3\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Cos}[c+d\,x]^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(-\frac{47}{192}\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{1}{3}\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]+\frac{5}{64}\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]+\frac{1}{96}\text{Sin}\left[\frac{7}{2}(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(32-24\sqrt{2}\right)d}\,25\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^4\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\,x,\,5,\,0\right\}$$

$$\frac{163\,a^{5/2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{64\,d}+\frac{163\,a^3\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{163\,a^3\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{17\,a^3\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Cos}[c+d\,x]^3\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(-\frac{265\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]}{1536}+\frac{55}{192}\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]+\frac{47}{512}\,\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]+\frac{5}{192}\,\text{Sin}\left[\frac{7}{2}(c+d\,x)\right]+\frac{1}{256}\,\text{Sin}\left[\frac{9}{2}(c+d\,x)\right]\right)-$$

$$\frac{1}{128\,d}\,163\left(4+3\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\,x,\,3,\,0\right\}$$

$$\frac{\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{2\,\text{Tan}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$2\left(3\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}+\right.$$

$$\left.4\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}[c+d\,x]^2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\,x,\,2,\,0\right\}$$

$$-\frac{\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}+\frac{2\,\text{Tan}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{-2\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}+2\,\text{Tan}[c+d\,x]}{d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 1,\ 0\right\}$$

$$\frac{\sqrt{2}\ \text{ArcTan}\left[\frac{\sqrt{a}\ \text{Tan}[c+d\,x]}{\sqrt{2}\ \sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\ d}$$

$$\frac{2\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}}{d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$-\frac{\text{ArcTan}\left[\frac{\sqrt{a}\ \text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\ d}+\frac{\sqrt{2}\ \text{ArcTan}\left[\frac{\sqrt{a}\ \text{Tan}[c+d\,x]}{\sqrt{2}\ \sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\ d}+\frac{\text{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\sqrt{\text{Sec}[c+d\,x]}\left(\frac{\left(2\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\sqrt{2}\ \text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{7\,\text{ArcTan}\left[\frac{\sqrt{a}\ \text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,\sqrt{a}\ d}-\frac{\sqrt{2}\ \text{ArcTan}\left[\frac{\sqrt{a}\ \text{Tan}[c+d\,x]}{\sqrt{2}\ \sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\ d}-\frac{\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{\text{Cos}[c+d\,x]\ \text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(-8\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}+\sqrt{2}\left(7\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}+\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,(-\text{Sin}[c+d\,x]+\text{Sin}[2\,(c+d\,x)])\right)\right)\Bigg/\left(4\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[x]}{\sqrt{a+a\,\text{Sec}[x]}},\ x,\ 1,\ 0\right\}$$

$$\frac{\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[x]}}\right]}{\sqrt{a}}$$

$$\frac{2\,\text{ArcSin}\left[\text{Tan}\left[\frac{x}{2}\right]\right]\text{Cos}\left[\frac{x}{2}\right]^2\sqrt{\frac{\text{Cos}[x]}{1+\text{Cos}[x]}}\,\sqrt{\text{Sec}\left[\frac{x}{2}\right]^2}\,\sqrt{\text{Sec}[x]}\,\sqrt{1+\text{Sec}[x]}}{\sqrt{a\,(1+\text{Sec}[x])}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}},\ x,\ 1,\ 0\right\}$$

$$-\frac{\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}$$

$$-\frac{i\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\left(\text{Log}\left[\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]-\text{Log}\left[2\,d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)}{d\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{11\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{19\,\text{Tan}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{7\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\left(33\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\text{Sec}[c+d\,x]}-\frac{1}{8}\,\text{Sec}[c+d\,x]^3\,(3\,\text{Sin}[c+d\,x]+24\,\text{Sin}[2\,(c+d\,x)]+19\,\text{Sin}[3\,(c+d\,x)])\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 3,\ 0\right\}$$

$$-\frac{7\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{5\,\text{Tan}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\left(-14\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\text{Sec}[c+d\,x]}+(5+4\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{3\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{3\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\text{Sec}[c+d\,x]}-\frac{1}{2}\,\text{Tan}[c+d\,x]}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}+\frac{\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\text{Sec}[c+d\,x]}+\frac{1}{2}\,\text{Tan}[c+d\,x]}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}$$

Incorrect antiderivative:

$$\left\{\frac{1}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{2\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\ \mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{a^{3/2}\,d}-\frac{5\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\ \mathrm{Tan}[c+d\,x]}{\sqrt{2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{2\sqrt{2}\ a^{3/2}\,d}-\frac{\mathrm{Tan}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]^{3/2}\left(\frac{\left(-5\,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\sqrt{2}\ \mathrm{ArcTan}\left[\frac{\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\ \sqrt{1+\mathrm{Sec}[c+d\,x]}}{\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\sqrt{\mathrm{Sec}[c+d\,x]}\left(-\mathrm{Sin}[c+d\,x]+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 5,\ 0\right\}$$

$$-\frac{3\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\ \mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{a^{3/2}\,d}+\frac{9\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\ \mathrm{Tan}[c+d\,x]}{\sqrt{2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{2\sqrt{2}\ a^{3/2}\,d}-\frac{\mathrm{Sin}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{3\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]^{3/2}\left(\frac{3\left(3\,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-2\sqrt{2}\ \mathrm{ArcTan}\left[\frac{\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\ \sqrt{1+\mathrm{Sec}[c+d\,x]}}{\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\sqrt{\mathrm{Sec}[c+d\,x]}\left(\mathrm{Sin}[c+d\,x]+\mathrm{Sin}[2\,(c+d\,x)]-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{19\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{3/2}\,d}-\frac{13\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-$$

$$\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{7\,\text{Sin}[c+d\,x]}{4\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(\frac{\left(-26\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+19\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right.$$

$$\left.\sqrt{\text{Sec}[c+d\,x]}\,\left(3\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^5}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,5,\,0\right\}$$

$$\frac{163\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{17\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{299\,\text{Tan}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{95\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{12\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\text{Sec}[c+d\,x]^2$$

$$\left(489\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}-\right.$$

$$\left.\frac{1}{32}\,\text{Sec}[c+d\,x]^2\,(750\,\text{Sin}[c+d\,x]+1238\,\text{Sin}[2\,(c+d\,x)]+1006\,\text{Sin}[3\,(c+d\,x)]+299\,\text{Sin}[4\,(c+d\,x)])\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,4,\,0\right\}$$

$$-\frac{75\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{13\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{49\,\text{Tan}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{64\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\text{Sec}[c+d\,x]^2\left(-1200\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}+340\,\text{Sin}[c+d\,x]+49\,\text{Sec}[c+d\,x]\,\text{Sin}[3\,(c+d\,x)]+177\,\text{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{19\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-\frac{\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{9\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{32\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\text{Sec}[c+d\,x]^2\left(152\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}-26\,\text{Sin}[c+d\,x]-9\,\text{Sin}[2\,(c+d\,x)]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{5\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-\frac{\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}+\frac{5\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{32\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\text{Sec}[c+d\,x]^2\left(40\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}+10\,\text{Sin}[c+d\,x]+\text{Sin}[2\,(c+d\,x)]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{3\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}+\frac{\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}+\frac{3\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{32\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\text{Sec}[c+d\,x]^2\left(24\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}+6\,\text{Sin}[c+d\,x]+7\,\text{Sin}[2\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 8,\ 0\}$$

$$-\frac{12\,a^2\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{8\,a^2\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{7\,d}+\frac{12\,a^2\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{8\,a^2\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{7\,d}+\frac{4\,a^2\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,a^2\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{35}\,a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4(1+\text{Sec}[c+d\,x])^2\left(-\frac{1}{d\,(-1+e^{2\,i\,c})}\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^2\left(21\,(1+e^{2\,i\,(c+d\,x)})+21\,(-1+e^{2\,i\,c})\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+10\,e^{i\,(c+d\,x)}\,(-1+e^{2\,i\,c})\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{42\,\text{Cos}[d\,x]\,\text{Csc}[c]+(15+14\,\text{Cos}[c+d\,x]+10\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{2\,d\,\text{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 7,\ 0\}$$

$$-\frac{16\,a^2\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{4\,a^2\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{16\,a^2\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{4\,a^2\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,a^2\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{15}\,a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4(1+\text{Sec}[c+d\,x])^2\left(-\frac{1}{d\,(-1+e^{2\,i\,c})}\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^2\left(12\,(1+e^{2\,i\,(c+d\,x)})+12\,(-1+e^{2\,i\,c})\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+5\,e^{i\,(c+d\,x)}\,(-1+e^{2\,i\,c})\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{24\,\text{Cos}[d\,x]\,\text{Csc}[c]+(10+3\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d\,\text{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 6,\ 0\right\}$$

$$-\frac{4 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{d}+\frac{8 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}+\frac{4 a^2 \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{d}+\frac{2 a^2 \text{Sec}[c+d x]^{3/2}\ \text{Sin}[c+d x]}{3 d}$$

$$\frac{1}{3} a^2 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 (1+\text{Sec}[c+d x])^2 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} i \sqrt{2}\ e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\right.$$

$$\text{Cos}[c+d x]^2 \left(3\left(1+e^{2 i (c+d x)}\right)+3\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+\right.$$

$$\left.\left.2 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{6 \text{Cos}[d x]\ \text{Csc}[c]+\text{Tan}[c+d x]}{2 d\ \text{Sec}[c+d x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^2}{\text{Sec}[c+d x]^{3/2}}, x, 5, 0\right\}$$

$$\frac{4 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{d}+\frac{8 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}+\frac{2 a^2 \text{Sin}[c+d x]}{3 d \sqrt{\text{Sec}[c+d x]}}$$

$$\frac{1}{3 d} a^2 \sqrt{\text{Sec}[c+d x]}\left(-12 i \text{Cos}[c+d x]+12 i e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-\right.$$

$$\left.8 i \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]+\text{Sin}[2(c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^2}{\text{Sec}[c+d x]^{5/2}}, x, 6, 0\right\}$$

$$\frac{16 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+\frac{4 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}+\frac{2 a^2 \text{Sin}[c+d x]}{5 d\ \text{Sec}[c+d x]^{3/2}}+\frac{4 a^2 \text{Sin}[c+d x]}{3 d \sqrt{\text{Sec}[c+d x]}}$$

$$\frac{1}{30 d} a^2 \sqrt{\text{Sec}[c+d x]}\left(-96 i \text{Cos}[c+d x]+96 i e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-\right.$$

$$\left.40 i \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]+3 \text{Sin}[c+d x]+20 \text{Sin}[2(c+d x)]+3 \text{Sin}[3(c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^2}{\text{Sec}[c+d x]^{7/2}}, x, 7, 0\right\}$$

$$\frac{12 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 d} + \frac{8 a^2 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{7 d} + \frac{2 a^2 \text{Sin}[c+d x]}{7 d\, \text{Sec}[c+d x]^{5/2}} + \frac{4 a^2 \text{Sin}[c+d x]}{5 d\, \text{Sec}[c+d x]^{3/2}} + \frac{8 a^2 \text{Sin}[c+d x]}{7 d \sqrt{\text{Sec}[c+d x]}}$$

$$\frac{1}{140 d} a^2 \sqrt{\text{Sec}[c+d x]} \left(-336 i \text{Cos}[c+d x] + 336 i e^{-i (c+d x)} \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right] - 160 i \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right] + 28 \text{Sin}[c+d x] + 90 \text{Sin}[2 (c+d x)] + 28 \text{Sin}[3 (c+d x)] + 5 \text{Sin}[4 (c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^3, x, 8, 0\right\}$$

$$-\frac{28 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 d} + \frac{52 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{21 d} + \frac{28 a^3 \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{5 d} + \frac{52 a^3 \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{21 d} + \frac{32 a^3 \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{35 d} + \frac{2 a^2 \text{Sec}[c+d x]^{5/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{7 d}$$

$$\frac{1}{210} a^3 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^6 (1+\text{Sec}[c+d x])^3 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^3 \left(147 \left(1+e^{2 i (c+d x)}\right) + 147 \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right] + 65 e^{i (c+d x)} \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right]\right) + \frac{294 \text{Cos}[d x] \text{Csc}[c] + (80+63 \text{Cos}[c+d x]+65 \text{Cos}[2 (c+d x)]) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{2 d\, \text{Sec}[c+d x]^{5/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^3, x, 7, 0\right\}$$

$$-\frac{36 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 d} + \frac{4 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{d} + \frac{36 a^3 \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{5 d} + \frac{8 a^3 \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{5 d} + \frac{2 a^2 \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{5 d}$$

$$\frac{1}{10} a^3 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^6 (1+\text{Sec}[c+d x])^3 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^3 \left(9 \left(1+e^{2 i (c+d x)}\right) + 9 \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right] + 5 e^{i (c+d x)} \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right]\right) + \frac{18 \text{Cos}[d x] \text{Csc}[c] + (5+\text{Sec}[c+d x]) \text{Tan}[c+d x]}{2 d\, \text{Sec}[c+d x]^{5/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3}{\sqrt{\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{4\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{20\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{16\,a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,a^2\,\sqrt{\mathrm{Sec}[c+d\,x]}\ (a+a\,\mathrm{Sec}[c+d\,x])\ \mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d}$$

$$a^3\,e^{-2\,i\,(c+d\,x)}\,\mathrm{Sec}[c+d\,x]^{3/2}\left(-6-6\,\mathrm{Cos}[2\,(c+d\,x)]+6\,e^{-2\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$20\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Cos}[c+d\,x]\ \mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+$$

$$\left.2\,i\,\mathrm{Sin}[c+d\,x]+9\,i\,\mathrm{Sin}[2\,(c+d\,x)]\right)\left(-i\,\mathrm{Cos}[2\,(c+d\,x)]+\mathrm{Sin}[2\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3}{\mathrm{Sec}[c+d\,x]^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{4\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{20\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{4\,a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,a^2\,(a+a\,\mathrm{Sec}[c+d\,x])\ \mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d}a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}\left(-12\,i\,\mathrm{Cos}[c+d\,x]+12\,i\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]-\right.$$

$$\left.20\,i\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+6\,\mathrm{Sin}[c+d\,x]+\mathrm{Sin}[2\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3}{\mathrm{Sec}[c+d\,x]^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{36\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^3\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{8\,a^3\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,(a+a\,\mathrm{Sec}[c+d\,x])\ \mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{10\,d}a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}\left(-72\,i\,\mathrm{Cos}[c+d\,x]+72\,i\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]-\right.$$

$$\left.40\,i\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\mathrm{Sin}[c+d\,x]+10\,\mathrm{Sin}[2\,(c+d\,x)]+\mathrm{Sin}[3\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3}{\mathrm{Sec}[c+d\,x]^{7/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{28 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+\frac{52 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+$$
$$\frac{32 a^3 \text{Sin}[c+d x]}{35 d\,\text{Sec}[c+d x]^{3/2}}+\frac{52 a^3 \text{Sin}[c+d x]}{21 d\sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (a+a\,\text{Sec}[c+d x])\,\text{Sin}[c+d x]}{7 d\,\text{Sec}[c+d x]^{5/2}}$$
$$\frac{1}{420 d} a^3 \sqrt{\text{Sec}[c+d x]}\left(-2352 i \text{Cos}[c+d x]+2352 i e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-\right.$$
$$1040 i\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]+$$
$$\left.126\,\text{Sin}[c+d x]+550\,\text{Sin}[2(c+d x)]+126\,\text{Sin}[3(c+d x)]+15\,\text{Sin}[4(c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^3}{\text{Sec}[c+d x]^{9/2}},x,8,0\right\}$$

$$\frac{68 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+\frac{44 a^3 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+$$
$$\frac{40 a^3 \text{Sin}[c+d x]}{63 d\,\text{Sec}[c+d x]^{5/2}}+\frac{68 a^3 \text{Sin}[c+d x]}{45 d\,\text{Sec}[c+d x]^{3/2}}+\frac{44 a^3 \text{Sin}[c+d x]}{21 d\sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (a+a\,\text{Sec}[c+d x])\,\text{Sin}[c+d x]}{9 d\,\text{Sec}[c+d x]^{7/2}}$$
$$\frac{1}{2520 d} a^3 \sqrt{\text{Sec}[c+d x]}\left(-11424 i \text{Cos}[c+d x]+11424 i e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-\right.$$
$$5280 i\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]+1022\,\text{Sin}[c+d x]+$$
$$\left.3180\,\text{Sin}[2(c+d x)]+1057\,\text{Sin}[3(c+d x)]+270\,\text{Sin}[4(c+d x)]+35\,\text{Sin}[5(c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])^4,x,9,0\right\}$$

$$-\frac{152 a^4 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+\frac{32 a^4 \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{7 d}+$$
$$\frac{152 a^4 \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}+\frac{32 a^4 \text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{7 d}+\frac{188 a^4 \text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{105 d}+$$
$$\frac{44 a^3 \text{Sec}[c+d x]^{5/2}(a+a\,\text{Sec}[c+d x])\,\text{Sin}[c+d x]}{63 d}+\frac{2 a^2 \text{Sec}[c+d x]^{5/2}(a+a\,\text{Sec}[c+d x])^2\,\text{Sin}[c+d x]}{9 d}$$
$$\frac{1}{210} a^4 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^8(1+\text{Sec}[c+d x])^4\left(-\frac{1}{d\left(-1+e^{2 i c}\right)} i\sqrt{2}\ e^{-i (c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^4\right.$$
$$\left(133\left(1+e^{2 i (c+d x)}\right)+133\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+\right.$$
$$\left.60 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+$$
$$\left.\frac{1596\,\text{Cos}[d x]\,\text{Csc}[c]+\left(720+427\,\text{Sec}[c+d x]+180\,\text{Sec}[c+d x]^2+35\,\text{Sec}[c+d x]^3\right)\text{Tan}[c+d x]}{12 d\,\text{Sec}[c+d x]^{7/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^4,\ x,\ 8,\ 0\right\}$$

$$-\frac{64\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{136\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{64\,a^4\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{332\,a^4\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{36\,a^3\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,a^2\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{210}\,a^4\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^8(1+\text{Sec}[c+d\,x])^4\left(-\frac{1}{d\left(-1+e^{2\,i\,c}\right)}\,i\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^4\right.$$

$$\left(168\left(1+e^{2\,i\,(c+d\,x)}\right)+168\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$\left.85\,e^{i\,(c+d\,x)}\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\left.\frac{672\,\text{Cos}[d\,x]\,\text{Csc}[c]+\left(235+84\,\text{Sec}[c+d\,x]+15\,\text{Sec}[c+d\,x]^2\right)\text{Tan}[c+d\,x]}{4\,d\,\text{Sec}[c+d\,x]^{7/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{56\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{32\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{164\,a^4\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{28\,a^3\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a^2\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{30}\,a^4\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^8(1+\text{Sec}[c+d\,x])^4\left(-\frac{1}{d\left(-1+e^{2\,i\,c}\right)}\,i\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^4\right.$$

$$\left(21\left(1+e^{2\,i\,(c+d\,x)}\right)+21\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$\left.20\,e^{i\,(c+d\,x)}\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\left.\frac{-3\,(-61+5\,\text{Cos}[2\,c])\,\text{Cos}[d\,x]\,\text{Csc}[c]+30\,\text{Cos}[c]\,\text{Sin}[d\,x]+2\,(20+3\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{8\,d\,\text{Sec}[c+d\,x]^{7/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4}{\text{Sec}[c+d\,x]^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{56\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{32\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-$$

$$\frac{4\,a^4\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{28\,a^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}a^4\sqrt{\text{Sec}[c+d\,x]}\left(-336\,i\,\text{Cos}[c+d\,x]+336\,i\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.320\,i\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+63\,\text{Sin}[c+d\,x]+40\,\text{Sin}[2\,(c+d\,x)]+3\,\text{Sin}[3\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\right\}$$

$$\frac{64\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{136\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$
$$\frac{332\,a^4\,\text{Sin}[c+d\,x]}{105\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{36\,a^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}a^4\sqrt{\text{Sec}[c+d\,x]}\left(-5376\,i\,\text{Cos}[c+d\,x]+5376\,i\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$2720\,i\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+$$
$$\left.168\,\text{Sin}[c+d\,x]+970\,\text{Sin}[2\,(c+d\,x)]+168\,\text{Sin}[3\,(c+d\,x)]+15\,\text{Sin}[4\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\right\}$$

$$\frac{152\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+\frac{32\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{7\,d}+$$
$$\frac{188\,a^4\,\text{Sin}[c+d\,x]}{105\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{32\,a^4\,\text{Sin}[c+d\,x]}{7\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{44\,a^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}a^4\sqrt{\text{Sec}[c+d\,x]}\left(-25\,536\,i\,\text{Cos}[c+d\,x]+25\,536\,i\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$11\,520\,i\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+1778\,\text{Sin}[c+d\,x]+$$
$$\left.6480\,\text{Sin}[2\,(c+d\,x)]+1813\,\text{Sin}[3\,(c+d\,x)]+360\,\text{Sin}[4\,(c+d\,x)]+35\,\text{Sin}[5\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4}{\text{Sec}[c+d\,x]^{11/2}},\,x,\,9,\,0\right\}$$

$$\frac{128\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{904\,a^4\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+\frac{860\,a^4\,\text{Sin}[c+d\,x]}{693\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{128\,a^4\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{904\,a^4\,\text{Sin}[c+d\,x]}{231\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{52\,a^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\frac{1}{1155\,d\left(-1+e^{2ic}\right)}8\,i\sqrt{2}\,a^4\,e^{-i(c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\left(1232\left(1+e^{2i(c+dx)}\right)+1232\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]-565\,e^{i(c+dx)}\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2i(c+dx)}\right]\right)+\frac{1}{27720\,d\sqrt{\text{Sec}[c+dx]}}a^4\left(-236544\,\text{Cot}[c]+122610\,\text{Sin}[c+dx]+45584\,\text{Sin}[2(c+dx)]+14445\,\text{Sin}[3(c+dx)]+3080\,\text{Sin}[4(c+dx)]+315\,\text{Sin}[5(c+dx)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{7/2}}{a+a\,\text{Sec}[c+dx]},x,7,0\right\}$$

$$\frac{3\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a\,d}+\frac{5\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3\,a\,d}-\frac{3\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{a\,d}+\frac{5\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3\,a\,d}-\frac{\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{d\,(a+a\,\text{Sec}[c+dx])}$$

$$\frac{1}{3\,a\,(1+\text{Sec}[c+dx])}\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\left(\frac{1}{d\left(-1+e^{2ic}\right)}2\,i\sqrt{2}\,e^{-i(c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\left(9\left(1+e^{2i(c+dx)}\right)+9\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]-5\,e^{i(c+dx)}\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2i(c+dx)}\right]\right)+\frac{\sqrt{\text{Sec}[c+dx]}\left(-18\,\text{Cos}[dx]\,\text{Csc}[c]+\text{Sec}[c+dx]\left(5\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\text{Sin}\left[\frac{3}{2}(c+dx)\right]-\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\right)}{d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{5/2}}{a+a\,\text{Sec}[c+dx]},x,6,0\right\}$$

$$-\frac{3\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a\,d}-\frac{\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a\,d}+\frac{3\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{a\,d}-\frac{\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{d\,(a+a\,\text{Sec}[c+dx])}$$

$$-\frac{1}{2\,a\,d}\,i\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-i\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\left(-2-4\,\text{Cos}[c+dx]+3\,e^{-i(c+dx)}\left(1+e^{i(c+dx)}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]-\left(1+e^{i(c+dx)}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2i(c+dx)}\right]+2\,i\,\text{Sin}[c+dx]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{3/2}}{a+a\,\text{Sec}[c+dx]},x,5,0\right\}$$

$$\frac{\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(2\,i\,e^{-i\,(c+d\,x)}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\left(1+e^{2\,i\,(c+d\,x)}-\left(1+e^{i\,(c+d\,x)}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+e^{i\,(c+d\,x)}\left(1+e^{i\,(c+d\,x)}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\text{Sec}[c+d\,x]^{3/2}\right)\Big/\left(a\,d\left(1+e^{i\,(c+d\,x)}\right)(1+\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}}{a+a\,\text{Sec}[c+d\,x]},x,5,0\right\}$$

$$-\frac{\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}e^{-i\,(2\,c+d\,x)}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}[c+d\,x]^{3/2}\left(-i\left(-2\,\text{Cos}[c+d\,x]+e^{-i\,(c+d\,x)}\left(1+e^{i\,(c+d\,x)}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right](1+\text{Cos}[c+d\,x]+i\,\text{Sin}[c+d\,x])\right)\left(\text{Cos}\left[\frac{1}{2}(3\,c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}(3\,c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])},x,5,0\right\}$$

$$\frac{3\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,(1+\text{Sec}[c+d\,x])}\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\left(\frac{1}{d\left(-1+e^{2\,i\,c}\right)}2\,i\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\left(3\left(1+e^{2\,i\,(c+d\,x)}\right)+3\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+e^{i\,(c+d\,x)}\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-\frac{\left(\text{Cos}\left[\frac{1}{2}(c-d\,x)\right]+2\,\text{Cos}\left[\frac{1}{2}(3\,c+d\,x)\right]+2\,\text{Cos}\left[\frac{1}{2}(c+3\,d\,x)\right]+\text{Cos}\left[\frac{1}{2}(5\,c+3\,d\,x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d}\right)$$

$$\text{Sec}[c+d\,x]$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{3/2}\,(a+a\,\text{Sec}[c+d x])},\ x,\ 6,\ 0\right\}$$

$$-\frac{3\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a\,d}+\frac{5\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{3\,a\,d}+\frac{5\,\text{Sin}[c+d x]}{3\,a\,d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{d\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{3\,a\,(1+\text{Sec}[c+d x])}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]$$

$$\left(-\frac{1}{d\left(-1+e^{2 i c}\right)}2\,i\sqrt{2}\,e^{-i(c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\left(9\left(1+e^{2 i(c+d x)}\right)+9\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i(c+d x)}\right]+5\,e^{i(c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i(c+d x)}\right]\right)+\frac{1}{d}2\sqrt{\text{Sec}[c+d x]}\left(3\,(2+\text{Cos}[2 c])\,\text{Cos}[d x]\,\text{Csc}[c]+\text{Cos}[2 d x]\,\text{Sin}[2 c]-3\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]\text{Sin}\left[\frac{d x}{2}\right]-6\,\text{Cos}[c]\,\text{Sin}[d x]+\text{Cos}[2 c]\,\text{Sin}[2 d x]-3\,\text{Tan}\left[\frac{c}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{5/2}\,(a+a\,\text{Sec}[c+d x])},\ x,\ 7,\ 0\right\}$$

$$\frac{21\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{5\,a\,d}-\frac{5\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{3\,a\,d}+\frac{7\,\text{Sin}[c+d x]}{5\,a\,d\,\text{Sec}[c+d x]^{3/2}}-\frac{5\,\text{Sin}[c+d x]}{3\,a\,d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{d\,\text{Sec}[c+d x]^{3/2}\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{15\,a\,(1+\text{Sec}[c+d x])}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(\frac{1}{d\left(-1+e^{2 i c}\right)}2\,i\sqrt{2}\,e^{-i(c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\left(63\left(1+e^{2 i(c+d x)}\right)+63\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i(c+d x)}\right]+25\,e^{i(c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i(c+d x)}\right]\right)-\frac{1}{4\,d}\left(93\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+159\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+163\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+89\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+7\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]-7\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]-3\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{9/2}}{(a+a\,\text{Sec}[c+d x])^2},\ x,\ 8,\ 0\right\}$$

$$\frac{7\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{10\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}-$$
$$\frac{7\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{a^2 d}+\frac{10\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 a^2 d}-\frac{\text{Sec}[c+d x]^{7/2}\,\text{Sin}[c+d x]}{3 d\,(a+a\,\text{Sec}[c+d x])^2}-\frac{7\,\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{3 a d\,(a+a\,\text{Sec}[c+d x])}$$
$$\frac{1}{3 a^2\,(1+\text{Sec}[c+d x])^2}\text{Cos}\left[\frac{1}{2}(c+d x)\right]^4\text{Sec}[c+d x]^2$$
$$\left(\frac{1}{d\left(-1+e^{2 i c}\right)}4 i\sqrt{2}\,e^{-i(c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\left(21\left(1+e^{2 i(c+d x)}\right)+21\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i(c+d x)}\right]-10\,e^{i(c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i(c+d x)}\right]\right)+\frac{1}{d}\sqrt{\text{Sec}[c+d x]}\left(-84\,\text{Cos}[d x]\,\text{Csc}[c]+\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\text{Sec}[c+d x]\left(\text{Sin}\left[\frac{1}{2}(c+d x)\right]+8\,\text{Sin}\left[\frac{3}{2}(c+d x)\right]+5\,\text{Sin}\left[\frac{5}{2}(c+d x)\right]\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{7/2}}{(a+a\,\text{Sec}[c+d x])^2},x,7,0\right\}$$
$$-\frac{4\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}-\frac{5\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}+$$
$$\frac{4\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{a^2 d}-\frac{\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{3 d\,(a+a\,\text{Sec}[c+d x])^2}-\frac{5\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 a d\,(a+a\,\text{Sec}[c+d x])}$$
$$\frac{1}{3 a^2\,(1+\text{Sec}[c+d x])^2}\text{Cos}\left[\frac{1}{2}(c+d x)\right]^4$$
$$\left(-\frac{1}{d\left(-1+e^{2 i c}\right)}4 i\sqrt{2}\,e^{-i(c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\left(12\left(1+e^{2 i(c+d x)}\right)+12\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i(c+d x)}\right]-5\,e^{i(c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i(c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i(c+d x)}\right]\right)+\frac{1}{2 d}\left(29\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+19\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+31\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+12\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{5/2}}{(a+a\,\text{Sec}[c+d x])^2},x,6,0\right\}$$
$$\frac{\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}+$$
$$\frac{2\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}-\frac{\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 d\,(a+a\,\text{Sec}[c+d x])^2}-\frac{\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{a d\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(3\left(1+e^{2 i (c+d x)}\right)+3\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-2 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{2 d}\left(5\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+7\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+7\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+2\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]}}{(a+a\,\text{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$-\frac{\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{2\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}+\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3 d (a+a\,\text{Sec}[c+d x])^2}+\frac{2\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3 a d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(3\left(1+e^{2 i (c+d x)}\right)+3\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+2 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{1}{2 d}\left(7\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+4\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$\frac{4\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}-\frac{5\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}-\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3 d (a+a\,\text{Sec}[c+d x])^2}-\frac{5\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3 a d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(12\left(1+e^{2 i (c+d x)}\right)+12\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+5 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{2 d}\left(25\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+23\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+20\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+16\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+9\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])^2}, x, 7, 0\right\}$$

$$-\frac{7\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{10\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^2 d}+\frac{10\,\text{Sin}[c+d x]}{3 a^2 d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{3 d\sqrt{\text{Sec}[c+d x]}(a+a\,\text{Sec}[c+d x])^2}-\frac{7\,\text{Sin}[c+d x]}{3 a d\sqrt{\text{Sec}[c+d x]}(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(21\left(1+e^{2 i (c+d x)}\right)+21\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+10 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{1}{4 d}\left(87\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+81\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+73\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+53\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+33\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+9\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]-\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{5/2}(a+a\,\text{Sec}[c+d x])^2}, x, 8, 0\right\}$$

$$\frac{56\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 a^2 d}-\frac{5\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{56\,\text{Sin}[c+d x]}{15 a^2 d\,\text{Sec}[c+d x]^{3/2}}-\frac{5\,\text{Sin}[c+d x]}{a^2 d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{3 d\,\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])^2}-\frac{3\,\text{Sin}[c+d x]}{a d\,\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{5 a^2 (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(56\left(1+e^{2 i (c+d x)}\right)+56\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+25 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{24 d}\left(1378\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+1310\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+1156\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+860\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+504\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+168\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+11\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]-11\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]-3\,\text{Cos}\left[\frac{1}{2}(7 c+9 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(11 c+9 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^2$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{11/2}}{(a+a\,\text{Sec}[c+d x])^3}, x, 9, 0\right\}$$

$$\frac{119\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}+\frac{11\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{2 a^3 d}-\frac{119\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{10 a^3 d}+\frac{11\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{2 a^3 d}-\frac{\text{Sec}[c+d x]^{9/2}\,\text{Sin}[c+d x]}{5 d (a+a\,\text{Sec}[c+d x])^3}-\frac{2\,\text{Sec}[c+d x]^{7/2}\,\text{Sin}[c+d x]}{3 a d (a+a\,\text{Sec}[c+d x])^2}-\frac{119\,\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{30 a^2 d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{5 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \text{Sec}[c+d x]^3 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(119\left(1+e^{2 i (c+d x)}\right)+119\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-55 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{48 d}\left(5134\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+4148\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+4664\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+2476\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+3340\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+944\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+1620\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]+165\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]+357\,\text{Cos}\left[\frac{1}{2}(7 c+9 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\text{Sec}[c+d x]^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{9/2}}{(a+a\,\text{Sec}[c+d x])^3}, x, 8, 0\right\}$$

$$-\frac{49\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}-\frac{13\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{6 a^3 d}+\frac{49\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{10 a^3 d}-\frac{\text{Sec}[c+d x]^{7/2}\,\text{Sin}[c+d x]}{5 d (a+a\,\text{Sec}[c+d x])^3}-\frac{8\,\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{15 a d (a+a\,\text{Sec}[c+d x])^2}-\frac{13\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{6 a^2 d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{15\,a^3\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$
$$\left(-\frac{1}{d\,\left(-1+e^{2\,i\,c}\right)}4\,i\,\sqrt{2}\;e^{-i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\left(147\,\left(1+e^{2\,i\,(c+d\,x)}\right)+147\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\right.\right.\right.$$
$$\left.\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]-65\,e^{i\,(c+d\,x)}\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{4},\,\frac{1}{2},\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]\Bigg)+\frac{1}{8\,d}$$
$$\left(1284\,\text{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+921\,\text{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+1243\,\text{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+374\,\text{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+670\,\text{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]+\right.$$
$$\left.\left.65\,\text{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]+147\,\text{Cos}\left[\frac{1}{2}\,(5\,c+7\,d\,x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\sqrt{\text{Sec}[c+d\,x]}\right)\text{Sec}[c+d\,x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$
$$\frac{9\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}+\frac{\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{2\,a^3\,d}-$$
$$\frac{\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{2\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{9\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{5\,a^3\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$
$$\left(\frac{1}{d\,\left(-1+e^{2\,i\,c}\right)}4\,i\,\sqrt{2}\;e^{-i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\left(9\,\left(1+e^{2\,i\,(c+d\,x)}\right)+9\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\right.\right.\right.$$
$$\left.\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]-5\,e^{i\,(c+d\,x)}\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{4},\,\frac{1}{2},\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]\Bigg)-\frac{1}{8\,d}$$
$$\left(68\,\text{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+67\,\text{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+71\,\text{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+28\,\text{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+40\,\text{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]+\right.$$
$$\left.\left.5\,\text{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]+9\,\text{Cos}\left[\frac{1}{2}\,(5\,c+7\,d\,x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\sqrt{\text{Sec}[c+d\,x]}\right)\text{Sec}[c+d\,x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$
$$\frac{\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}+\frac{\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}-$$
$$\frac{\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{4\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{15 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(3\left(1+e^{2 i (c+d x)}\right)+3\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-5 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{8 d}\left(36\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+9\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+7\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+26\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+10\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{3/2}}{(a+a\,\text{Sec}[c+d x])^3}, x, 7, 0\right\}$$

$$-\frac{\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}+\frac{\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{6 a^3 d}-\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{5 d (a+a\,\text{Sec}[c+d x])^3}+\frac{2\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15 a d (a+a\,\text{Sec}[c+d x])^2}+\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{6 a^2 d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{15 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(3\left(1+e^{2 i (c+d x)}\right)+3\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+5 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{1}{8 d}\left(36\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+9\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+17\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+16\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+20\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]-5\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+3\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]}}{(a+a\,\text{Sec}[c+d x])^3}, x, 7, 0\right\}$$

$$-\frac{9\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}+\frac{\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{2 a^3 d}+\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{5 d (a+a\,\text{Sec}[c+d x])^3}+\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{5 a d (a+a\,\text{Sec}[c+d x])^2}+\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{2 a^2 d (a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{5 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(9\left(1+e^{2 i (c+d x)}\right)+9\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+5 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{1}{8 d}\left(68\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+67\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+61\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+38\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+30\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+15\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+9\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^3}, x, 7, 0\right\}$$

$$\frac{49\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}-\frac{13\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{6 a^3 d}-\frac{\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{5 d\,(a+a\,\text{Sec}[c+d x])^3}-\frac{8\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15 a d\,(a+a\,\text{Sec}[c+d x])^2}-\frac{13\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{6 a^2 d\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{15 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(147\left(1+e^{2 i (c+d x)}\right)+147\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+65 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{8 d}\left(1134\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+1071\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+923\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+694\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+470\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+265\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+117\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]+30\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{3/2}\,(a+a\,\text{Sec}[c+d x])^3}, x, 8, 0\right\}$$

$$-\frac{119\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}+\frac{11\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{2 a^3 d}+\frac{11\,\text{Sin}[c+d x]}{2 a^3 d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{5 d\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^3}-\frac{2\,\text{Sin}[c+d x]}{3 a d\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^2}-\frac{119\,\text{Sin}[c+d x]}{30 a^2 d\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{5 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(-\frac{1}{d\left(-1+e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(119\left(1+e^{2 i (c+d x)}\right)+119\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+55 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)+\frac{1}{24 d}\left(2774\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+2581\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+2253\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+1674\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+1170\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+615\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+292\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]+65\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(7 c+9 d x)\right]-5\,\text{Cos}\left[\frac{1}{2}(11 c+9 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{5/2}(a+a\,\text{Sec}[c+d x])^3}, x, 9, 0\right\}$$

$$\frac{231\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{10 a^3 d}-\frac{21\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{2 a^3 d}+\frac{77\,\text{Sin}[c+d x]}{10 a^3 d\,\text{Sec}[c+d x]^{3/2}}-\frac{21\,\text{Sin}[c+d x]}{2 a^3 d\sqrt{\text{Sec}[c+d x]}}-\frac{\text{Sin}[c+d x]}{5 d\,\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])^3}-\frac{4\,\text{Sin}[c+d x]}{5 a d\,\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])^2}-\frac{63\,\text{Sin}[c+d x]}{10 a^2 d\,\text{Sec}[c+d x]^{3/2}(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{5 a^3 (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right]^6 \left(\frac{1}{d\left(-1+e^{2 i c}\right)} 84 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(11\left(1+e^{2 i (c+d x)}\right)+11\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+5 e^{i (c+d x)}\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]\right)-\frac{1}{16 d}\left(3590\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+3340\,\text{Cos}\left[\frac{1}{2}(3 c+d x)\right]+2900\,\text{Cos}\left[\frac{1}{2}(c+3 d x)\right]+2182\,\text{Cos}\left[\frac{1}{2}(5 c+3 d x)\right]+1505\,\text{Cos}\left[\frac{1}{2}(3 c+5 d x)\right]+805\,\text{Cos}\left[\frac{1}{2}(7 c+5 d x)\right]+369\,\text{Cos}\left[\frac{1}{2}(5 c+7 d x)\right]+93\,\text{Cos}\left[\frac{1}{2}(9 c+7 d x)\right]+5\,\text{Cos}\left[\frac{1}{2}(7 c+9 d x)\right]-5\,\text{Cos}\left[\frac{1}{2}(11 c+9 d x)\right]-\text{Cos}\left[\frac{1}{2}(9 c+11 d x)\right]+\text{Cos}\left[\frac{1}{2}(13 c+11 d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^5\sqrt{\text{Sec}[c+d x]}\right)\text{Sec}[c+d x]^3$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d x]}, x, 4, 0\right\}$$

$$\frac{3 a\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}}{2\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{3 a\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{4 d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{a\,\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{2 d\sqrt{a+a\,\text{Sec}[c+d x]}}$$

$$\frac{1}{64\,d}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}$$
$$\Bigg(-12\,i\,\sqrt{2}\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Cos}[c+d\,x]^2-$$
$$12\,i\,\sqrt{2}\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Cos}[c+d\,x]^2+6\,\sqrt{2}\,\mathrm{Log}\left[\sqrt{2}+2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$6\,\sqrt{2}\,\mathrm{Cos}[2\,(c+d\,x)]\,\mathrm{Log}\left[\sqrt{2}+2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-3\,\sqrt{2}\,\mathrm{Log}\left[4+2\,\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$3\,\sqrt{2}\,\mathrm{Cos}[2\,(c+d\,x)]\,\mathrm{Log}\left[4+2\,\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$3\,\sqrt{2}\,\mathrm{Log}\left[-2\left(-2+\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]-$$
$$3\,\sqrt{2}\,\mathrm{Cos}[2\,(c+d\,x)]\,\mathrm{Log}\left[-2\left(-2+\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+8\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+24\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]},\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{2}\,a\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}$$
$$\Bigg(-2\,i\,\sqrt{2}\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Cos}[c+d\,x]-$$
$$2\,i\,\sqrt{2}\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Cos}[c+d\,x]+$$
$$2\,\sqrt{2}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[\sqrt{2}+2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\sqrt{2}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[4+2\,\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$\sqrt{2}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[-2\left(-2+\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+8\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]},\ x,\ 2,\ 0\right\}$$

$$\frac{2\,\sqrt{2}\,a\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\sqrt{2}\,d\sqrt{\text{Sec}[c+d\,x]}}\left(-2\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]-2\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]+\right.$$
$$2\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$
$$\left.\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2},\ x,\ 6,\ 0\right\}$$

$$\frac{11\,a^2\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{11\,a^2\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{11\,a^2\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$
$$-\frac{11\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}-$$
$$\frac{11\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{11\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}-$$
$$\frac{11\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}-$$
$$\frac{11\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{24\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{11\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}-$$
$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{24\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}-\frac{11\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$
$$\frac{3\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{3\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2},\ x,\ 5,\ 0\right\}$$

$$\frac{7 a^2 \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{2 \sqrt{2} d \sqrt{a+a \text{Sec}[c+d x]}}+$$

$$\frac{7 a^2 \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{4 d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{a^2 \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{2 d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{1}{64 d \text{Sec}[c+d x]^{3/2}}$$

$$\text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 (a (1+\text{Sec}[c+d x]))^{3/2} \left(-14 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(-1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right] \text{Sec}\left[\frac{1}{2} (c+d x)\right]-\right.$$

$$14 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(-1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right] \text{Sec}\left[\frac{1}{2} (c+d x)\right]+14 \sqrt{2} \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]$$

$$\text{Sec}\left[\frac{1}{2} (c+d x)\right]-7 \sqrt{2} \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Sec}\left[\frac{1}{2} (c+d x)\right]-$$

$$7 \sqrt{2} \text{Log}\left[-2 \left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)\right] \text{Sec}\left[\frac{1}{2} (c+d x)\right]+\frac{56}{1+\text{Cos}[c+d x]-\text{Sin}[c+d x]}-$$

$$\left.\frac{56}{1+\text{Cos}[c+d x]+\text{Sin}[c+d x]}+\frac{8 \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}+\frac{8 \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d x]} (a+a \text{Sec}[c+d x])^{3/2}, x, 4, 0\right\}$$

$$\frac{3 \sqrt{2} a^2 \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{a^2 \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{1}{16 d \text{Sec}[c+d x]^{3/2}} \text{Sec}\left[\frac{1}{2} (c+d x)\right]^3 (a (1+\text{Sec}[c+d x]))^{3/2} \left(-6 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(-1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right]-\right.$$

$$6 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(-1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right]+$$

$$6 \sqrt{2} \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-3 \sqrt{2} \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-$$

$$3 \sqrt{2} \text{Log}\left[-2 \left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)\right]+$$

$$\left.\frac{4}{\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]}-\frac{4}{\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^{3/2}}{\sqrt{\text{Sec}[c+d x]}}, x, 3, 0\right\}$$

$$\frac{2 \sqrt{2} a^2 \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{2 a^2 \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{1}{4\,d\,\sqrt{\text{Sec}[c+d\,x]}}\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-2\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]-\right.$$

$$2\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+$$

$$2\,\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\sqrt{2}\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+8\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\ x,\ 6,\ 0\right\}$$

$$\frac{163\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{32\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{163\,a^3\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{163\,a^3\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{17\,a^3\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$-\frac{163\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{163\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{163\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{163\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{163\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{23\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{384\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{163\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\frac{23\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{384\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{163\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{43\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{256\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{43\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{256\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\ x,\ 5,\ 0\right\}$$

$$\frac{25\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{25\,a^3\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{13\,a^3\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$-\frac{25\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{25\,i\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{25\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{25\,\text{Log}\left[2\,\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{128\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{25\,\text{Log}\left[-2\,\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{128\,\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{48\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{25\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\frac{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{48\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{25\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{5\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{5\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\ x,\ 4,\ 0\right\}$$

$$\frac{19\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{9\,a^3\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{128\, d\, \text{Sec}[c+d x]^{5/2}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 (a(1+\text{Sec}[c+d x]))^{5/2} \left(-38 i \sqrt{2}\, \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]-\right.$$

$$38 i \sqrt{2}\, \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]+38\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]-19\sqrt{2}\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]-$$

$$19\sqrt{2}\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]+\frac{88}{1+\text{Cos}[c+d x]-\text{Sin}[c+d x]}-$$

$$\left.\frac{88}{1+\text{Cos}[c+d x]+\text{Sin}[c+d x]}+\frac{8\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{8\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^{5/2}}{\sqrt{\text{Sec}[c+d x]}}, x, 4, 0\right\}$$

$$\frac{5\sqrt{2}\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}}{d\sqrt{a+a\,\text{Sec}[c+d x]}}+$$

$$\frac{a^3\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{a^2\sqrt{\text{Sec}[c+d x]}\,\sqrt{a+a\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{d}$$

$$\frac{1}{8d}a^2\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}\,\sqrt{a(1+\text{Sec}[c+d x])}$$

$$\left(-10 i\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Cos}[c+d x]-\right.$$

$$10 i\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Cos}[c+d x]+10\sqrt{2}\,\text{Cos}[c+d x]$$

$$\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-5\sqrt{2}\,\text{Cos}[c+d x]\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-$$

$$\left.5\sqrt{2}\,\text{Cos}[c+d x]\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]+8\,\text{Sin}\left[\frac{3}{2}(c+d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^{5/2}}{\text{Sec}[c+d x]^{3/2}}, x, 4, 0\right\}$$

$$\frac{2\sqrt{2}\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}}{d\sqrt{a+a\,\text{Sec}[c+d x]}}+$$

$$\frac{14\,a^3\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{2\,a^2\sqrt{a+a\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3d\sqrt{\text{Sec}[c+d x]}}$$

$$\frac{1}{12\,d\,\sqrt{\text{Sec}[c+d\,x]}}\,a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-6\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]-\right.$$

$$6\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+$$

$$6\,\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-3\,\sqrt{2}\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\left.3\,\sqrt{2}\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+60\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{\sqrt{1+\text{Sec}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$\frac{2\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{1+\text{Sec}[c+d\,x]}}-$$

$$\frac{\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{1+\text{Sec}[c+d\,x]}}+\frac{\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,\sqrt{1+\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{1+\text{Sec}[c+d\,x]}}$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]^{3/2}\left(2\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\text{Cos}[c+d\,x]+\right.$$

$$2\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\text{Cos}[c+d\,x]-$$

$$8\,\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+8\,\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]-$$

$$2\,\sqrt{2}\,\text{Cos}[c+d\,x]\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,\text{Cos}[c+d\,x]\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\left.\sqrt{2}\,\text{Cos}[c+d\,x]\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+8\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}}{\sqrt{1+\text{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{1+\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{1+\text{Sec}[c+d\,x]}}$$

$$\frac{1}{\left((1+i)+\sqrt{2}\right) d}$$

$$\left(\frac{1}{2}+\frac{i}{2}\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\frac{1}{1+\text{Cos}[c+d x]}} \left(-2 i \left((1-i)+\sqrt{2}\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]-\right.$$

$$2 i \left((1-i)+\sqrt{2}\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]+4 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]+$$

$$(2-2 i) \sqrt{2} \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]-4 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]-$$

$$(2-2 i) \sqrt{2} \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]+(2-2 i) \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$

$$2 \sqrt{2} \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-(1-i) \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-$$

$$\sqrt{2} \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-$$

$$(1-i) \text{Log}\left[-2\left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]-$$

$$\left.\sqrt{2} \text{Log}\left[-2\left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{5/2}}{\sqrt{a+a \text{Sec}[c+d x]}}, x, 6, 0\right\}$$

$$\frac{2 \text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}-$$

$$\frac{\sqrt{2} \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{\text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{1}{4 d \sqrt{a(1+\text{Sec}[c+d x])}}$$

$$\text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x]^{3/2} \left(2 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}[c+d x]+\right.$$

$$2 i \sqrt{2} \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}[c+d x]-$$

$$8 \text{Cos}[c+d x] \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]+8 \text{Cos}[c+d x] \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right]-$$

$$2 \sqrt{2} \text{Cos}[c+d x] \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\sqrt{2} \text{Cos}[c+d x] \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$

$$\left.\sqrt{2} \text{Cos}[c+d x] \text{Log}\left[-2\left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]+8 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$-\frac{2\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{\left((1+i)+\sqrt{2}\right)d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\left(\frac{1}{2}+\frac{i}{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-2\,i\,\left((1-i)+\sqrt{2}\right)\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]-\right.$$

$$2\,i\,\left((1-i)+\sqrt{2}\right)\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+4\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+$$

$$(2-2\,i)\,\sqrt{2}\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]-4\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]-$$

$$(2-2\,i)\,\sqrt{2}\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+(2-2\,i)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$2\,\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-(1-i)\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\sqrt{2}\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$(1-i)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\right)\sqrt{\text{Sec}[c+d\,x]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{9\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{3\,\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{3\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}\left(6\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+\right.$$

$$6\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]-$$

$$18\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+18\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]-$$

$$6\,\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+3\,\sqrt{2}\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$3\,\sqrt{2}\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+\frac{1}{\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}-$$

$$\left.\frac{1}{\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}+\frac{4}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-\frac{4}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{5\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}\left(-4\,i\,\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+\right.$$

$$\frac{(4-4\,i)\left((1-i)+\sqrt{2}\right)\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]}{(1+i)+\sqrt{2}}+$$

$$10\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]-10\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+$$

$$4\,\sqrt{2}\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-2\,\sqrt{2}\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\frac{(2+2\,i)\left((1-i)+\sqrt{2}\right)\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]}{(1+i)+\sqrt{2}}-$$

$$\left.\frac{1}{\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}+\frac{1}{\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{9/2}}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{115\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{5\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{15\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{35\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{10\,i\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{10\,i\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{115\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{115\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{10\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{5\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{5\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}+$$

$$\frac{19\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}-$$

$$\frac{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}-$$

$$\frac{19\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}+$$

$$\frac{4\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}-\frac{4\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{43\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\sqrt{2}\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{11\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{(4-4\,i)\left((1-i)+\sqrt{2}\right)\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{\left((1+i)+\sqrt{2}\right)d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{4\,i\sqrt{2}\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{43\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{43\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{4\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{(2+2\,i)\left((1-i)+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{5/2}}{\left((1+i)+\sqrt{2}\right)d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}-$$

$$\frac{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}-$$

$$\frac{11\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}+$$

$$\frac{11\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 7,\ 0\right\}$$

$$\frac{32 a^2 \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{15 d}+\frac{20 a^2 \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{21 d}+\frac{20 a^2 \sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{21 d}+$$
$$\frac{32 a^2 \text{Cos}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{45 d}+\frac{4 a^2 \text{Cos}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{7 d}+\frac{2 a^2 \text{Cos}[c+d x]^{7/2}\,\text{Sin}[c+d x]}{9 d}$$

$$\text{Cos}[c+d x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a\,\text{Sec}[c+d x])^2$$
$$\left(-\frac{8\,\text{Cot}[c]}{15 d}+\frac{23\,\text{Cos}[d x]\,\text{Sin}[c]}{84 d}+\frac{37\,\text{Cos}[2 d x]\,\text{Sin}[2 c]}{360 d}+\frac{\text{Cos}[3 d x]\,\text{Sin}[3 c]}{28 d}+\frac{\text{Cos}[4 d x]\,\text{Sin}[4 c]}{144 d}+\right.$$
$$\left.\frac{23\,\text{Cos}[c]\,\text{Sin}[d x]}{84 d}+\frac{37\,\text{Cos}[2 c]\,\text{Sin}[2 d x]}{360 d}+\frac{\text{Cos}[3 c]\,\text{Sin}[3 d x]}{28 d}+\frac{\text{Cos}[4 c]\,\text{Sin}[4 d x]}{144 d}\right)-$$
$$\frac{1}{21 d\sqrt{1+\text{Cot}[c]^2}}\,5\,\text{Cos}[c+d x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$
$$\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a\,\text{Sec}[c+d x])^2\,\text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$
$$\frac{1}{15 d}\,4\,\text{Cos}[c+d x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a\,\text{Sec}[c+d x])^2$$
$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x]^{7/2}(a+a\,\text{Sec}[c+d x])^2, x, 6, 0\right\}$$

$$\frac{12 a^2 \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{5 d}+\frac{8 a^2 \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{7 d}+$$
$$\frac{8 a^2 \sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{7 d}+\frac{4 a^2 \text{Cos}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{5 d}+\frac{2 a^2 \text{Cos}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{7 d}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(-\frac{3\,\text{Cot}[c]}{5\,d}+\frac{17\,\text{Cos}[d\,x]\,\text{Sin}[c]}{56\,d}+\frac{\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{10\,d}+\frac{\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{56\,d}+\frac{17\,\text{Cos}[c]\,\text{Sin}[d\,x]}{56\,d}+\frac{\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{10\,d}+\frac{\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{56\,d}\right)-$$

$$\frac{1}{7\,d\,\sqrt{1+\text{Cot}[c]^2}}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{10\,d}\,3\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2,\ x,\ 5,\ 0\right\}$$

$$\frac{16\,a^2\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{4\,a^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,a^2\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(-\frac{4\,\text{Cot}[c]}{5\,d}+\frac{\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{20\,d}+\frac{\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{20\,d}\right)-$$

$$\frac{1}{3\,d\,\sqrt{1+\text{Cot}[c]^2}}\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{5\,d}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}(a+a\,\text{Sec}[c+d\,x])^2,\,x,\,4,\,0\right\}$$

$$\frac{4\,a^2\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{d}+\frac{8\,a^2\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,d}+\frac{2\,a^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(-\frac{\text{Cot}[c]}{d}+\frac{\text{Cos}[d\,x]\,\text{Sin}[c]}{6\,d}+\frac{\text{Cos}[c]\,\text{Sin}[d\,x]}{6\,d}\right)-$$

$$\frac{1}{3\,d\,\sqrt{1+\text{Cot}[c]^2}}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{2\,d}\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{4\,a^2\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{d}+\frac{8\,a^2\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,d}+\frac{2\,a^2\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^2\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(\frac{2\,\text{Csc}[2\,c]}{d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{6\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(\text{Sin}[c]+6\,\text{Sin}[d\,x])}{6\,d}\right)-$$

$$\frac{1}{3\,d\,\sqrt{1+\text{Cot}[c]^2}}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{2\,d}\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,6,\,0\right\}$$

$$-\frac{16\,a^2\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,d}+\frac{2\,a^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^2\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{16\,a^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(\frac{8\,\text{Csc}[2\,c]}{5\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{10\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,\text{Sin}[c]+10\,\text{Sin}[d\,x])}{30\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(5\,\text{Sin}[c]+12\,\text{Sin}[d\,x])}{15\,d}\right)-$$

$$\frac{1}{3\,d\,\sqrt{1+\text{Cot}[c]^2}}\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{5\,d}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2}{\text{Cos}[c+d\,x]^{5/2}},\,x,\,7,\,0\right\}$$

$$-\frac{12\,a^2\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{5\,d}+\frac{8\,a^2\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{7\,d}+$$

$$\frac{2\,a^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{7/2}}+\frac{4\,a^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{8\,a^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{12\,a^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\frac{6\,\text{Csc}[2\,c]}{5\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{14\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(7\,\text{Sin}[c]+10\,\text{Sin}[d\,x])}{35\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(5\,\text{Sin}[c]+14\,\text{Sin}[d\,x])}{70\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(10\,\text{Sin}[c]+21\,\text{Sin}[d\,x])}{35\,d}\right)-$$

$$\frac{1}{7\,d\,\sqrt{1+\text{Cot}[c]^2}}\,2\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{10\,d}\,3\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3,\,x,\,7,\,0\right\}$$

$$\frac{68\,a^3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{44\,a^3\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{44\,a^3\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{68\,a^3\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+\frac{40\,a^3\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,a^2\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$
$$\left(-\frac{17\,\text{Cot}[c]}{30\,d}+\frac{97\,\text{Cos}[d\,x]\,\text{Sin}[c]}{336\,d}+\frac{73\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{720\,d}+\frac{3\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{112\,d}+\frac{\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{288\,d}+\right.$$
$$\left.\frac{97\,\text{Cos}[c]\,\text{Sin}[d\,x]}{336\,d}+\frac{73\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{720\,d}+\frac{3\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{112\,d}+\frac{\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{288\,d}\right)-$$
$$\frac{1}{42\,d\,\sqrt{1+\text{Cot}[c]^2}}\,11\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$
$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$
$$\frac{1}{60\,d}\,17\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$
$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3,\ x,\ 6,\ 0\}$$
$$\frac{28\,a^3\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{5\,d}+\frac{52\,a^3\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{21\,d}+\frac{52\,a^3\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+$$
$$\frac{32\,a^3\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,a^2\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(-\frac{7\,\text{Cot}[c]}{10\,d}+\frac{107\,\text{Cos}[d\,x]\,\text{Sin}[c]}{336\,d}+\frac{3\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{40\,d}+\frac{\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{112\,d}+\frac{107\,\text{Cos}[c]\,\text{Sin}[d\,x]}{336\,d}+\frac{3\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{40\,d}+\frac{\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{112\,d}\right)-$$

$$\frac{1}{42\,d\,\sqrt{1+\text{Cot}[c]^2}}\,13\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{20\,d}\,7\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}(a+a\,\text{Sec}[c+d\,x])^3,\ x,\ 5,\ 0\right\}$$

$$\frac{36\,a^3\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^3\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{d}+$$

$$\frac{8\,a^3\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,a^2\,\text{Cos}[c+d\,x]^{3/2}(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(-\frac{9\,\text{Cot}[c]}{10\,d}+\frac{\text{Cos}[d\,x]\,\text{Sin}[c]}{4\,d}+\frac{\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{40\,d}+\frac{\text{Cos}[c]\,\text{Sin}[d\,x]}{4\,d}+\frac{\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{40\,d}\right)-$$

$$\frac{1}{2\,d\,\sqrt{1+\text{Cot}[c]^2}}\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{20\,d}\,9\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}(a+a\,\text{Sec}[c+d\,x])^3,\ x,\ 5,\ 0\right\}$$

$$\frac{4\,a^3\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{d}+\frac{20\,a^3\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{4\,a^3\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(-\frac{(1+3\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{4\,d}+\frac{\text{Cos}[d\,x]\,\text{Sin}[c]}{12\,d}+\frac{\text{Cos}[c]\,\text{Sin}[d\,x]}{12\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{4\,d}\right)-$$

$$\frac{1}{6\,d\,\sqrt{1+\text{Cot}[c]^2}}\,5\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{4\,d}\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3,\,x,\,5,\,0\right\}$$

$$-\frac{4\,a^3\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{d}+\frac{20\,a^3\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,d}+\frac{16\,a^3\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(-\frac{(-5+\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{4\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{12\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(\text{Sin}[c]+9\,\text{Sin}[d\,x])}{12\,d}\right)-$$

$$\frac{1}{6\,d\,\sqrt{1+\text{Cot}[c]^2}}\,5\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{4\,d}\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$-\frac{36\,a^3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^3\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+$$

$$\frac{8\,a^3\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{36\,a^3\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(\frac{9\,\text{Csc}[2\,c]}{5\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{20\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(\text{Sin}[c]+5\,\text{Sin}[d\,x])}{20\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(5\,\text{Sin}[c]+18\,\text{Sin}[d\,x])}{20\,d}\right)-$$

$$\frac{1}{2\,d\,\sqrt{1+\text{Cot}[c]^2}}\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;+$$

$$\frac{1}{20\,d}\,9\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$-\frac{28\,a^3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{52\,a^3\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{32\,a^3\,\text{Sin}[c+d\,x]}{35\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{52\,a^3\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{28\,a^3\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\frac{7\,\text{Csc}[2\,c]}{5\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{28\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(5\,\text{Sin}[c]+21\,\text{Sin}[d\,x])}{140\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(63\,\text{Sin}[c]+130\,\text{Sin}[d\,x])}{420\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(65\,\text{Sin}[c]+147\,\text{Sin}[d\,x])}{210\,d}\right)-$$

$$\frac{1}{42\,d\,\sqrt{1+\text{Cot}[c]^2}}\,13\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{20\,d}\,7\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}}{a+a\,\text{Sec}[c+d\,x]},x,6,0\right\}$$

$$\frac{21\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{5\,a\,d}-\frac{5\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{3\,a\,d}-$$

$$\frac{5\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}+\frac{7\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}-\frac{\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(-\frac{2\,(5+16\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\frac{4\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{4\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}+$$

$$\left(10\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-\frac{1}{5\,d\,(a+a\,\text{Sec}[c+d\,x])}21\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}}{a+a\,\text{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$-\frac{3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{5\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+\frac{5\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}-\frac{\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(\frac{2\,(1+2\,\text{Cos}[c])\,\text{Csc}[c]}{d}+\frac{4\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{4\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}\right)}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}-$$

$$\left(10\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+\frac{1}{d\,(a+a\,\text{Sec}[c+d\,x])}3\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}}{a+a\,\text{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$\frac{3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}-\frac{\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}-\frac{\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(-\frac{2\,(1+2\,\text{Cos}[c])\,\text{Csc}[c]}{d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]}{d}\right)}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}+$$

$$\left(2\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-\frac{1}{d\,(a+a\,\text{Sec}[c+d\,x])}3\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,4,\,0\right\}$$

$$-\frac{\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(\frac{2\,\text{Csc}[c]}{d}+\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]}{d}\right)}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}-$$

$$\left(2\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+\frac{1}{d\,(a+a\,\text{Sec}[c+d\,x])}\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,4,\,0\right\}$$

$$\frac{\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+\frac{\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}-\frac{\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(-\frac{2\,\text{Csc}[c]}{d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]}{d}\right)}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}-$$

$$\left(2\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-\frac{1}{d\,(a+a\,\text{Sec}[c+d\,x])}\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,5,\,0\right\}$$

$$-\frac{3\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{a\,d}-\frac{\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{a\,d}+\frac{3\,\text{Sin}[c+d\,x]}{a\,d\sqrt{\text{Cos}[c+d\,x]}}-\frac{\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(\frac{6}{d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}-\frac{2\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-3\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+2\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}\right)}{\sqrt{\text{Cos}[c+d\,x]}\;(a+a\,\text{Sec}[c+d\,x])}+$$

$$\left(2\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\;\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\;\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\;\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,\sqrt{1+\text{Cot}[c]^2}\;(a+a\,\text{Sec}[c+d\,x])\right)+\frac{1}{d\,(a+a\,\text{Sec}[c+d\,x])}3\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\;\text{Sec}[c+d\,x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\;\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{\text{Cos}[c]\;\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\;\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\;\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\;\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\;\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\;\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{7/2}\;(a+a\,\text{Sec}[c+d\,x])},\,x,\,6,\,0\right\}$$

$$\frac{3\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{5\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+$$

$$\frac{5\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{3/2}}-\frac{3\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{5/2}\;(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \left(-\frac{(2+\text{Cos}[c])\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]\text{Sin}\left[\frac{d x}{2}\right]}{d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d x]\,(\text{Sin}[c]-3\,\text{Sin}[d x])}{3 d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d x]^2\,\text{Sin}[d x]}{3 d}\right)}{\sqrt{\text{Cos}[c+d x]}\,(a+a\,\text{Sec}[c+d x])}-$$

$$\left(10\,\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d x]\,\text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3 d\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d x])\right)-\frac{1}{d\,(a+a\,\text{Sec}[c+d x])}3\,\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2\text{Csc}[c]\,\text{Sec}[c+d x]$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^{5/2}}{(a+a\,\text{Sec}[c+d x])^2},x,7,0\right\}$$

$$\frac{56\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{5 a^2 d}-\frac{5\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^2 d}-\frac{5\sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{a^2 d}+$$

$$\frac{56\,\text{Cos}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{15 a^2 d}-\frac{\text{Cos}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 d\,(a+a\,\text{Sec}[c+d x])^2}-\frac{3\,\text{Cos}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{a d\,(a+a\,\text{Sec}[c+d x])}$$

$$\left(20\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(-\frac{16\,(5+9\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}-\frac{16\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{4\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,d}-\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{16\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{4\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,112\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{3/2}}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{7\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{10\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{10\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{7\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(40\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(\frac{4\,(3+4\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}+\frac{8\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{12\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}+\frac{8\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$+\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,14\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+d\,x]}}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$\frac{4\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}-\frac{5\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{5\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(20\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(-\frac{8\,\mathrm{Cot}\left[\frac{c}{2}\right]}{d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-$$

$$\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}8\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$-\frac{\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{2\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{2\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(8\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(\frac{4\,\mathrm{Csc}[c]}{d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+$$

$$\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$\frac{\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{2\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(8\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(-\frac{4\,\mathrm{Csc}[c]}{d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-$$

$$\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{4\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}-\frac{5\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+\frac{4\,\mathrm{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{5\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(20\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\left(\frac{16}{d\,(-\mathrm{Sin}[c]+\mathrm{Sin}[2\,c])}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{8\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-2\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+$$

$$\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}8\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$\frac{7\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{10\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+\frac{10\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}-$$

$$\frac{7\,\mathrm{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-\frac{\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{7\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(40\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$
$$\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$
$$\left(\frac{2\,(4-27\,\mathrm{Cos}[c]+2\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{3\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}+\right.$$
$$\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-2\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-21\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+9\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+2\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+10\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{3\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$
$$\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(\mathrm{Sin}\left[\frac{c}{2}\right]+3\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+2\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-2\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)-$$
$$\frac{1}{d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,14\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2$$
$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{5/2}}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$
$$\frac{231\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{21\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}-\frac{21\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,a^3\,d}+$$
$$\frac{77\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d}-\frac{\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{4\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{63\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(84\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(-\frac{132\,(3+4\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}-\frac{16\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{8\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,d}-\right.$$

$$\frac{396\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{32\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-$$

$$\left.\frac{16\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{8\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}+\frac{32\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,462\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{3/2}}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{119\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{11\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}+\frac{11\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,a^3\,d}-$$

$$\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{2\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{119\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{30\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(44\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\right.$$

$$\left(\frac{4\,(59+60\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}+\frac{16\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{236\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{76\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}+\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{16\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}-\frac{76\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,238\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+d\,x]}}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{49\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{13\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{\mathrm{Sin}[c+d\,x]}{5\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{8\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{13\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(52\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(-\frac{4\,(29+20\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}-\frac{116\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{56\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}-\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{56\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,98\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{9\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}+\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{\mathrm{Sin}[c+d\,x]}{2\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(\frac{36\,\mathrm{Csc}[c]}{5\,d}+\frac{36\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{12\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{12\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,18\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{2\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(\frac{4\,\mathrm{Csc}[c]}{5\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}-\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{16\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{4\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(-\frac{4\,\mathrm{Csc}[c]}{5\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}+\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{9\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}-\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{2\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{9\,\mathrm{Sin}[c+d\,x]}{10\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(-\frac{36\,\mathrm{Csc}[c]}{5\,d}-\frac{36\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\right.\right.$$

$$\left.\left.\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,18\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{49\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{13\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+\frac{49\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{8\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{13\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(52\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(\frac{196}{5\,d\,(-\mathrm{Sin}[c]+\mathrm{Sin}[2\,c])}+\frac{44\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}-\right.\right.$$

$$\left.\left.\frac{4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-49\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+20\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+29\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{5\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+\frac{44\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,98\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{11/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{119\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{11\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}+\frac{11\,\mathrm{Sin}[c+d\,x]}{2\,a^3\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}-\frac{119\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{2\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{119\,\mathrm{Sin}[c+d\,x]}{30\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(44\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^3\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+\frac{1}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(\frac{2\,(40-417\,\mathrm{Cos}[c]+20\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{15\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\right.$$

$$\frac{64\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{15\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{5\,d}+\frac{16\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-64\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-357\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+128\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+64\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+165\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{15\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(-3\,\mathrm{Sin}\left[\frac{c}{2}\right]+13\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+5\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-5\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{15\,d}-$$

$$\left.\frac{64\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,238\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,2,\,0\right\}$$

$$\frac{2\sqrt{2}\,a\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$-\frac{1}{3\,d}$$

$$2\,i\,e^{\frac{1}{2}i(c+d\,x)}\sqrt{\mathrm{Cos}[c+d\,x]}\left(3\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+e^{i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}{\mathrm{Cos}[c+d\,x]^{3/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{2}\ a\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\ (c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\ (c+d\,x)\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Cos}[c+d\,x]^{3/2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\ \left(-3\,i\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\mathrm{Cos}[c+d\,x]\ \mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ 1,\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]\mathrm{Sec}\left[\frac{1}{2}\ (c+d\,x)\right]-\right.$$
$$\left.i\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\mathrm{Cos}[c+d\,x]\ \mathrm{Hypergeometric2F1}\left[\frac{3}{4},\ 1,\ \frac{7}{4},\ -e^{2\,i\,(c+d\,x)}\right]\mathrm{Sec}\left[\frac{1}{2}\ (c+d\,x)\right]+3\,\mathrm{Tan}\left[\frac{1}{2}\ (c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}{\mathrm{Cos}[c+d\,x]^{5/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{3\,a\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\ (c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\ (c+d\,x)\right]}{2\,\sqrt{2}\ d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{3\,a\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d}\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{Sec}\left[\frac{1}{2}\ (c+d\,x)\right]\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\ \left(-3\,i\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ 1,\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.i\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{3}{4},\ 1,\ \frac{7}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\mathrm{Sec}[c+d\,x]\ (3+2\,\mathrm{Sec}[c+d\,x])\ \mathrm{Sin}\left[\frac{1}{2}\ (c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\ (a+a\,\mathrm{Sec}[c+d\,x])^{3/2},\ x,\ 3,\ 0\right\}$$

$$\frac{2\,\sqrt{2}\ a^2\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\ (c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\ (c+d\,x)\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$
$$-\frac{1}{3\,d\,\left(1+e^{i\,(c+d\,x)}\right)}\,i\,\mathrm{Cos}[c+d\,x]^{3/2}$$
$$\left(-3+3\,e^{i\,(c+d\,x)}+6\,e^{i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ 1,\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+2\,e^{2\,i\,(c+d\,x)}\,\mathrm{Hypergeometric2F1}\left[\frac{3}{4},\ 1,\ \frac{7}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)$$
$$\mathrm{Sec}\left[\frac{1}{2}\ (c+d\,x)\right]^2\ (a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}{\sqrt{\mathrm{Cos}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{3\,\sqrt{2}\ a^2\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\ (c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\ (c+d\,x)\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Cos}[c+d\,x]^{3/2}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d}\sqrt{\text{Cos}[c+d\,x]}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(-3\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Cos}[c+d\,x]\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]-i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Cos}[c+d\,x]\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}}{\text{Cos}[c+d\,x]^{3/2}},x,5,0\right\}$$

$$\frac{7\,a^2\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{2\sqrt{2}\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{7\,a^2\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{24\,d}\text{Cos}[c+d\,x]^{3/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(-21\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]-7\,i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]+3\,\text{Sec}[c+d\,x]\,(7+2\,\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}}{\text{Cos}[c+d\,x]^{5/2}},x,6,0\right\}$$

$$\frac{11\,a^2\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{4\sqrt{2}\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{11\,a^2\,\text{Sin}[c+d\,x]}{12\,d\,\text{Cos}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{11\,a^2\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,d}\text{Cos}[c+d\,x]^{3/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(-33\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]-11\,i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]+\text{Sec}[c+d\,x]\left(33+22\,\text{Sec}[c+d\,x]+8\,\text{Sec}[c+d\,x]^2\right)\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2},x,4,0\right\}$$

$$\frac{2\sqrt{2}\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{14\,a^3\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d}\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-6\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]-2\,i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]+15\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{5/2},\ x,\ 4,\ 0\right\}$$

$$\frac{5\sqrt{2}\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{12\,d}\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-15\,i\,e^{\frac{1}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+d\,x)}\right]-5\,i\,e^{\frac{3}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+d\,x)}\right]+3\,(2+\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{19\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{2\sqrt{2}\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{9\,a^3\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{48\,d}\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-57\,i\,e^{\frac{1}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+d\,x)}\right]-19\,i\,e^{\frac{3}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+d\,x)}\right]+3\,\text{Sec}[c+d\,x]\,(11+2\,\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{25\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{4\sqrt{2}\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{13\,a^3\,\text{Sin}[c+d\,x]}{12\,d\,\text{Cos}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{25\,a^3\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{96\,d}\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-75\,i\,e^{\frac{1}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+d\,x)}\right]-25\,i\,e^{\frac{3}{2}i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+d\,x)}\right]+\text{Sec}[c+d\,x]\left(75+34\,\text{Sec}[c+d\,x]+8\,\text{Sec}[c+d\,x]^2\right)\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{163\,a^3\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{17\,a^3\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{163\,a^3\,\text{Sin}[c+d\,x]}{96\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{163\,a^3\,\text{Sin}[c+d\,x]}{64\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{7/2}}$$

$$\frac{1}{768\,d}\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(-489\,i\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\,1,\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]-163\,i\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},\,1,\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$\left.\text{Sec}[c+d\,x]\,\left(489+326\,\text{Sec}[c+d\,x]+184\,\text{Sec}[c+d\,x]^2+48\,\text{Sec}[c+d\,x]^3\right)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,2,\,0\}$

$$\frac{A\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{B\,\text{Tan}[c+d\,x]}{d}$$

$$\frac{A\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+B\,\text{Tan}[c+d\,x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$\{A+B\,\text{Sec}[c+d\,x],\,x,\,2,\,0\}$

$$A\,x+\frac{B\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}$$

$$\frac{A\,d\,x-B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}$$

Valid but unnecessarily complicated antiderivative:

$\left\{\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,5,\,0\right\}$

$$\frac{a\,(4\,A+3\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a\,(A+B)\,\text{Tan}[c+d\,x]}{3\,d}+$$

$$\frac{a\,(4\,A+3\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a\,(A+B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,B\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 a B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 a B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 a B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{a B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 a B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{2 a A \text{Tan}[c+d x]}{3 d}+\frac{2 a B \text{Tan}[c+d x]}{3 d}+\frac{a A \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}+\frac{a B \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d x]\,(a+a \text{Sec}[c+d x])\,(A+B \text{Sec}[c+d x]),\ x,\ 3,\ 0\}$$

$$\frac{a (2 A+B) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{a (A+B) \text{Tan}[c+d x]}{d}+\frac{a B \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 d}$$

$$\frac{1}{4 d} a\left(-2 (2 A+B) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$4 A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+2 B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$
$$\left.\frac{B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+4 (A+B) \text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a \text{Sec}[c+d x])\,(A+B \text{Sec}[c+d x]),\ x,\ 2,\ 0\}$$

$$a A x+\frac{a (A+B) \text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{a B \text{Tan}[c+d x]}{d}$$

$$\frac{1}{d} a\left(A d x-(A+B) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$\left.A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+B \text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]\,(a+a \text{Sec}[c+d x])\,(A+B \text{Sec}[c+d x]),\ x,\ 3,\ 0\}$$

$$(a A+a B) x+\frac{a B \text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{a A \text{Sin}[c+d x]}{d}$$

$$\frac{a\left(A d x+B d x-B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+A \text{Sin}[c+d x]\right)}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$\frac{a^2\,(3\,A+2\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{2\,a^2\,(3\,A+2\,B)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a^2\,(3\,A+2\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{6\,d}+\frac{B\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{48\,d\,(B+A\,\text{Cos}[c+d\,x])}\,a^2\,\text{Cos}[c+d\,x]^3\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(-6\,(3\,A+2\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,(3\,A+2\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$\frac{2\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{(3\,A+7\,B)\,\text{Cos}\left[\frac{c}{2}\right]-(3\,A+5\,B)\,\text{Sin}\left[\frac{c}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{4\,(6\,A+5\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{2\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$
$$\left.\frac{(3\,A+7\,B)\,\text{Cos}\left[\frac{c}{2}\right]+(3\,A+5\,B)\,\text{Sin}\left[\frac{c}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(6\,A+5\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 3,\ 0\}$$

$$a^2\,A\,x+\frac{a^2\,(4\,A+3\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(2\,A+3\,B)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{16\,(B+A\,\text{Cos}[c+d\,x])}\,a^2\,\text{Cos}[c+d\,x]^3\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(4\,A\,x-\frac{2\,(4\,A+3\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{8\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{6\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,(A+2\,B)\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}+$$
$$\left.\frac{B}{d\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{B}{d\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$\left(2\,a^2\,A+a^2\,B\right)x+\frac{a^2\,(A+2\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a^2\,(A-B)\,\text{Sin}[c+d\,x]}{d}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{1}{4\,(B+A\,\mathrm{Cos}[c+d\,x])}\,a^2\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\mathrm{Sec}[c+d\,x])^2$$
$$(A+B\,\mathrm{Sec}[c+d\,x])\left((2\,A+B)\,x-\frac{(A+2\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{(A+2\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+$$
$$\left.\frac{B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\frac{5\,a^3\,(4\,A+3\,B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{5\,a^3\,(4\,A+3\,B)\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{5\,a^3\,(4\,A+3\,B)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{a\,(4\,A+3\,B)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{12\,d}+\frac{B\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$
$$-\frac{1}{1536\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,a^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$
$$\left(120\,(4\,A+3\,B)\,\mathrm{Cos}[c+d\,x]^4\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-\right.$$
$$\mathrm{Sec}[c]\,(-24\,(11\,A+9\,B)\,\mathrm{Sin}[c]+(36\,A+69\,B)\,\mathrm{Sin}[d\,x]+36\,A\,\mathrm{Sin}[2\,c+d\,x]+69\,B\,\mathrm{Sin}[2\,c+d\,x]+$$
$$280\,A\,\mathrm{Sin}[c+2\,d\,x]+264\,B\,\mathrm{Sin}[c+2\,d\,x]-72\,A\,\mathrm{Sin}[3\,c+2\,d\,x]-24\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+36\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$\left.45\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+36\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+45\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+88\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+72\,B\,\mathrm{Sin}[3\,c+4\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$a^3\,A\,x+\frac{a^3\,(7\,A+5\,B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{5\,a^3\,(A+B)\,\mathrm{Tan}[c+d\,x]}{2\,d}+$$
$$\frac{a^2\,(3\,A+5\,B)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{a\,B\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{A\,x\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{8\,(B+A\,\text{Cos}[c+d\,x])}+$$

$$\frac{(-7\,A-5\,B)\,\text{Cos}[c+d\,x]^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{16\,d\,(B+A\,\text{Cos}[c+d\,x])}+$$

$$\frac{(7\,A+5\,B)\,\text{Cos}[c+d\,x]^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{16\,d\,(B+A\,\text{Cos}[c+d\,x])}+$$

$$\frac{B\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{d\,x}{2}\right]}{48\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\left(3\,A\,\text{Cos}\left[\frac{c}{2}\right]+10\,B\,\text{Cos}\left[\frac{c}{2}\right]-3\,A\,\text{Sin}\left[\frac{c}{2}\right]-8\,B\,\text{Sin}\left[\frac{c}{2}\right]\right)}{96\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\left(9\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+11\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{24\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}+$$

$$\frac{B\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{d\,x}{2}\right]}{48\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\left(-3\,A\,\text{Cos}\left[\frac{c}{2}\right]-10\,B\,\text{Cos}\left[\frac{c}{2}\right]-3\,A\,\text{Sin}\left[\frac{c}{2}\right]-8\,B\,\text{Sin}\left[\frac{c}{2}\right]\right)}{96\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\left(9\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+11\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{24\,d\,(B+A\,\text{Cos}[c+d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\left(3\,a^3\,A+a^3\,B\right)\,x+\frac{a^3\,(6\,A+7\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}-\frac{5\,a^3\,B\,\text{Sin}[c+d\,x]}{2\,d}+$$

$$\frac{a^2\,(A+2\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{32\,(B+A\,\text{Cos}[c+d\,x])}\,a^3\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\text{Sec}[c+d\,x])^3$$

$$(A+B\,\text{Sec}[c+d\,x])\,\left(4\,(3\,A+B)\,x-\frac{2\,(6\,A+7\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$

$$\frac{2\,(6\,A+7\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+$$

$$\frac{B}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(A+3\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\left.\frac{B}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(A+3\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\frac{1}{2}\,a^3\,(7\,A+6\,B)\,x+\frac{a^3\,(A+3\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{5\,a^3\,A\,\text{Sin}[c+d\,x]}{2\,d}-\frac{a^2\,(A-2\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{2\,d}+\frac{a\,A\,\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{32\,(B+A\,\text{Cos}[c+d\,x])}\,a^3\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(2\,(7\,A+6\,B)\,x-\frac{4\,(A+3\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,(A+3\,B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{4\,(3\,A+B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{d}+\frac{A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{d}+\frac{4\,(3\,A+B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+\frac{A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{d}+$$
$$\left.\frac{4\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{4\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\text{Sec}[c+d\,x])^4\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$a^4\,A\,x+\frac{a^4\,(48\,A+35\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{5\,a^4\,(8\,A+7\,B)\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a^3\,(32\,A+35\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{24\,d}+\frac{a^2\,(4\,A+7\,B)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{3072\,d\,(B+A\,\text{Cos}[c+d\,x])}\,a^4\,\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\text{Sec}[c+d\,x])^4\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(-24\,(48\,A+35\,B)\,\text{Cos}[c+d\,x]^4\,\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\text{Sec}[c]\,(72\,A\,d\,x\,\text{Cos}[c]+48\,A\,d\,x\,\text{Cos}[c+2\,d\,x]+48\,A\,d\,x\,\text{Cos}[3\,c+2\,d\,x]+12\,A\,d\,x\,\text{Cos}[3\,c+4\,d\,x]+12\,A\,d\,x\,\text{Cos}[5\,c+4\,d\,x]-$$
$$480\,A\,\text{Sin}[c]-480\,B\,\text{Sin}[c]+48\,A\,\text{Sin}[d\,x]+105\,B\,\text{Sin}[d\,x]+48\,A\,\text{Sin}[2\,c+d\,x]+105\,B\,\text{Sin}[2\,c+d\,x]+$$
$$496\,A\,\text{Sin}[c+2\,d\,x]+544\,B\,\text{Sin}[c+2\,d\,x]-144\,A\,\text{Sin}[3\,c+2\,d\,x]-96\,B\,\text{Sin}[3\,c+2\,d\,x]+48\,A\,\text{Sin}[2\,c+3\,d\,x]+$$
$$\left.81\,B\,\text{Sin}[2\,c+3\,d\,x]+48\,A\,\text{Sin}[4\,c+3\,d\,x]+81\,B\,\text{Sin}[4\,c+3\,d\,x]+160\,A\,\text{Sin}[3\,c+4\,d\,x]+160\,B\,\text{Sin}[3\,c+4\,d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^4\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\left(4\,a^4\,A+a^4\,B\right)\,x+\frac{a^4\,(13\,A+12\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}-\frac{5\,a^4\,(A+2\,B)\,\text{Sin}[c+d\,x]}{2\,d}+\frac{a^3\,(9\,A+11\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}+\frac{a^2\,(A+2\,B)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{2\,d}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{(4A+B)\,x\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])}{16\,(B+A\,\text{Cos}[c+dx])}+$$

$$\frac{(-13A-12B)\,\text{Cos}[c+dx]^5\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])}{32\,d\,(B+A\,\text{Cos}[c+dx])}+$$

$$\frac{(13A+12B)\,\text{Cos}[c+dx]^5\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])}{32\,d\,(B+A\,\text{Cos}[c+dx])}+$$

$$\frac{A\,\text{Cos}[dx]\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\,\text{Sin}[c]}{16\,d\,(B+A\,\text{Cos}[c+dx])}+$$

$$\frac{A\,\text{Cos}[c]\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\,\text{Sin}[dx]}{16\,d\,(B+A\,\text{Cos}[c+dx])}+$$

$$\frac{B\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\,\text{Sin}\left[\frac{dx}{2}\right]}{96\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\left(3A\,\text{Cos}\left[\frac{c}{2}\right]+13B\,\text{Cos}\left[\frac{c}{2}\right]-3A\,\text{Sin}\left[\frac{c}{2}\right]-11B\,\text{Sin}\left[\frac{c}{2}\right]\right)}{192\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\left(3A\,\text{Sin}\left[\frac{dx}{2}\right]+5B\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{12\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)}+$$

$$\frac{B\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\,\text{Sin}\left[\frac{dx}{2}\right]}{96\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\left(-3A\,\text{Cos}\left[\frac{c}{2}\right]-13B\,\text{Cos}\left[\frac{c}{2}\right]-3A\,\text{Sin}\left[\frac{c}{2}\right]-11B\,\text{Sin}\left[\frac{c}{2}\right]\right)}{192\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx])\left(3A\,\text{Sin}\left[\frac{dx}{2}\right]+5B\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{12\,d\,(B+A\,\text{Cos}[c+dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+dx]^2(a+a\,\text{Sec}[c+dx])^4(A+B\,\text{Sec}[c+dx]),\ x,\ 6,\ 0\}$$

$$\frac{1}{2}a^4(13A+8B)\,x+\frac{a^4(8A+13B)\,\text{ArcTanh}[\text{Sin}[c+dx]]}{2d}+\frac{5a^4(A-B)\,\text{Sin}[c+dx]}{2d}+\frac{a^3(A+6B)(a+a\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{2d}-$$

$$\frac{a^2(A-B)(a+a\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{2d}+\frac{a\,A\,\text{Cos}[c+dx](a+a\,\text{Sec}[c+dx])^3\,\text{Sin}[c+dx]}{2d}$$

$$\frac{1}{64\,(B+A\,\mathrm{Cos}[c+d\,x])}\,a^4\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\mathrm{Sec}[c+d\,x])^4$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(2\,(13\,A+8\,B)\,x-\frac{2\,(8\,A+13\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$

$$\frac{2\,(8\,A+13\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,(4\,A+B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+$$

$$\frac{A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{d}+\frac{4\,(4\,A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{d}+$$

$$\frac{B}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(A+4\,B)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\left.\frac{B}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(A+4\,B)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Cos}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\frac{1}{2}\,a^4\,(12\,A+13\,B)\,x+\frac{a^4\,(A+4\,B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+$$

$$\frac{5\,a^4\,(2\,A+B)\,\mathrm{Sin}[c+d\,x]}{2\,d}-\frac{a^3\,(8\,A-3\,B)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{6\,d}+$$

$$\frac{a^2\,(2\,A+B)\,\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}+\frac{a\,A\,\mathrm{Cos}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{192\,(B+A\,\mathrm{Cos}[c+d\,x])}\,a^4\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\mathrm{Sec}[c+d\,x])^4$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(72\,A\,x+78\,B\,x-\frac{12\,(A+4\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$

$$\frac{12\,(A+4\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{3\,(27\,A+16\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{3\,(4\,A+B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{d}+$$

$$\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{d}+\frac{3\,(27\,A+16\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{3\,(4\,A+B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{d}+$$

$$\left.\frac{12\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{12\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^4\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\ x,\ 5,\ 0\right\}$$

$$\frac{3\,(A-B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a\,d}-\frac{2\,(3\,A-4\,B)\,\mathrm{Tan}[c+d\,x]}{3\,a\,d}+$$

$$\frac{3\,(A-B)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a\,d}-\frac{(3\,A-4\,B)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,a\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{48\,a\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(A+B\,\mathrm{Sec}[c+d\,x])$$
$$\left(-144\,(A-B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\left(6\,(A+B)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+(-27\,A+39\,B)\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+12\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$
$$24\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+6\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-6\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+24\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-24\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-$$
$$9\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+21\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-9\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+9\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+9\,A\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-$$
$$9\,B\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+7\,B\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+3\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$3\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-3\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+9\,A\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-9\,B\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-12\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.\left.16\,B\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-6\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+10\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-6\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+6\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$-\frac{(2\,A-3\,B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a\,d}+\frac{2\,(A-B)\,\mathrm{Tan}[c+d\,x]}{a\,d}-\frac{(2\,A-3\,B)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{2\,a\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(A+B\,\mathrm{Sec}[c+d\,x])$$
$$\left(4\,(A-B)\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left((4\,A-6\,B)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.\right.$$
$$4\,A\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.\left.4\,(A-B)\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]+\frac{B}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{B}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{(A-B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{a\,d}-\frac{(A-2\,B)\,\mathrm{Tan}[c+d\,x]}{a\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$2\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left((-A+B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$

$$(A-B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\frac{2\,(B-2\,(A-B)\,\mathrm{Cos}[c])\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sin}\left[\frac{c}{2}\right]}{\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Cos}\left[\frac{5\,c}{2}\right]}-$$

$$(A-B)\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+\frac{B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\left.\frac{B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,2,\,0\right\}$$

$$\frac{B\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{a\,d}+\frac{(A-B)\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{a\,d\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c+d\,x]$$

$$\left(B\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$

$$\left.B\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+2\,(-A+B)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$\frac{(3\,A-2\,B)\,x}{2\,a}-\frac{2\,(A-B)\,\mathrm{Sin}[c+d\,x]}{a\,d}+\frac{(3\,A-2\,B)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{2\,a\,d}-\frac{(A-B)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{8\,a\,d\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c+d\,x]$$

$$\left(4\,(3\,A-2\,B)\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+4\,(3\,A-2\,B)\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]-20\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+20\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-4\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-\right.$$

$$\left.3\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^5\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$\frac{(7\,A-10\,B)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a^2\,d}-\frac{8\,(2\,A-3\,B)\,\mathrm{Tan}[c+d\,x]}{3\,a^2\,d}+\frac{(7\,A-10\,B)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a^2\,d}-$$

$$\frac{4\,(2\,A-3\,B)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,a^2\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(7\,A-10\,B)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{96 a^2 d (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] \operatorname{Sec}[c + d x] (A + B \operatorname{Sec}[c + d x])$$
$$\left(-192 (7 A - 10 B) \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^3 \left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] - \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) +$$
$$\operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}[c] \operatorname{Sec}[c + d x]^3 \left((45 A - 6 B) \operatorname{Sin}\left[\frac{d x}{2}\right] + (-201 A + 310 B) \operatorname{Sin}\left[\frac{3 d x}{2}\right] + 195 A \operatorname{Sin}\left[c - \frac{d x}{2}\right] -\right.$$
$$306 B \operatorname{Sin}\left[c - \frac{d x}{2}\right] - 51 A \operatorname{Sin}\left[c + \frac{d x}{2}\right] + 42 B \operatorname{Sin}\left[c + \frac{d x}{2}\right] + 189 A \operatorname{Sin}\left[2 c + \frac{d x}{2}\right] - 270 B \operatorname{Sin}\left[2 c + \frac{d x}{2}\right] -$$
$$A \operatorname{Sin}\left[c + \frac{3 d x}{2}\right] + 50 B \operatorname{Sin}\left[c + \frac{3 d x}{2}\right] - 81 A \operatorname{Sin}\left[2 c + \frac{3 d x}{2}\right] + 90 B \operatorname{Sin}\left[2 c + \frac{3 d x}{2}\right] + 119 A \operatorname{Sin}\left[3 c + \frac{3 d x}{2}\right] -$$
$$170 B \operatorname{Sin}\left[3 c + \frac{3 d x}{2}\right] - 129 A \operatorname{Sin}\left[c + \frac{5 d x}{2}\right] + 198 B \operatorname{Sin}\left[c + \frac{5 d x}{2}\right] - 9 A \operatorname{Sin}\left[2 c + \frac{5 d x}{2}\right] + 42 B \operatorname{Sin}\left[2 c + \frac{5 d x}{2}\right] -$$
$$57 A \operatorname{Sin}\left[3 c + \frac{5 d x}{2}\right] + 66 B \operatorname{Sin}\left[3 c + \frac{5 d x}{2}\right] + 63 A \operatorname{Sin}\left[4 c + \frac{5 d x}{2}\right] - 90 B \operatorname{Sin}\left[4 c + \frac{5 d x}{2}\right] - 75 A \operatorname{Sin}\left[2 c + \frac{7 d x}{2}\right] +$$
$$114 B \operatorname{Sin}\left[2 c + \frac{7 d x}{2}\right] - 15 A \operatorname{Sin}\left[3 c + \frac{7 d x}{2}\right] + 36 B \operatorname{Sin}\left[3 c + \frac{7 d x}{2}\right] - 39 A \operatorname{Sin}\left[4 c + \frac{7 d x}{2}\right] +$$
$$48 B \operatorname{Sin}\left[4 c + \frac{7 d x}{2}\right] + 21 A \operatorname{Sin}\left[5 c + \frac{7 d x}{2}\right] - 30 B \operatorname{Sin}\left[5 c + \frac{7 d x}{2}\right] - 32 A \operatorname{Sin}\left[3 c + \frac{9 d x}{2}\right] + 48 B \operatorname{Sin}\left[3 c + \frac{9 d x}{2}\right] -$$
$$\left.12 A \operatorname{Sin}\left[4 c + \frac{9 d x}{2}\right] + 22 B \operatorname{Sin}\left[4 c + \frac{9 d x}{2}\right] - 20 A \operatorname{Sin}\left[5 c + \frac{9 d x}{2}\right] + 26 B \operatorname{Sin}\left[5 c + \frac{9 d x}{2}\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c + d x]^4 (A + B \operatorname{Sec}[c + d x])}{(a + a \operatorname{Sec}[c + d x])^2}, x, 5, 0\right\}$$
$$-\frac{(4 A - 7 B) \operatorname{ArcTanh}[\operatorname{Sin}[c + d x]]}{2 a^2 d} + \frac{2 (5 A - 8 B) \operatorname{Tan}[c + d x]}{3 a^2 d} -$$
$$\frac{(4 A - 7 B) \operatorname{Sec}[c + d x] \operatorname{Tan}[c + d x]}{2 a^2 d} + \frac{(A - B) \operatorname{Sec}[c + d x]^3 \operatorname{Tan}[c + d x]}{3 d (a + a \operatorname{Sec}[c + d x])^2} + \frac{(5 A - 8 B) \operatorname{Sec}[c + d x]^2 \operatorname{Tan}[c + d x]}{3 a d (a + a \operatorname{Sec}[c + d x])}$$

$$\frac{1}{48 a^2 d (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] \operatorname{Sec}[c + d x] (A + B \operatorname{Sec}[c + d x])$$
$$\left(96 (4 A - 7 B) \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^3 \left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] - \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) +$$
$$\operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}[c] \operatorname{Sec}[c + d x]^2 \left(-14 (A - B) \operatorname{Sin}\left[\frac{d x}{2}\right] + (64 A - 97 B) \operatorname{Sin}\left[\frac{3 d x}{2}\right] - 84 A \operatorname{Sin}\left[c - \frac{d x}{2}\right] +\right.$$
$$126 B \operatorname{Sin}\left[c - \frac{d x}{2}\right] + 42 A \operatorname{Sin}\left[c + \frac{d x}{2}\right] - 42 B \operatorname{Sin}\left[c + \frac{d x}{2}\right] - 56 A \operatorname{Sin}\left[2 c + \frac{d x}{2}\right] + 98 B \operatorname{Sin}\left[2 c + \frac{d x}{2}\right] -$$
$$6 A \operatorname{Sin}\left[c + \frac{3 d x}{2}\right] + 3 B \operatorname{Sin}\left[c + \frac{3 d x}{2}\right] + 34 A \operatorname{Sin}\left[2 c + \frac{3 d x}{2}\right] - 37 B \operatorname{Sin}\left[2 c + \frac{3 d x}{2}\right] - 36 A \operatorname{Sin}\left[3 c + \frac{3 d x}{2}\right] +$$
$$63 B \operatorname{Sin}\left[3 c + \frac{3 d x}{2}\right] + 48 A \operatorname{Sin}\left[c + \frac{5 d x}{2}\right] - 75 B \operatorname{Sin}\left[c + \frac{5 d x}{2}\right] + 6 A \operatorname{Sin}\left[2 c + \frac{5 d x}{2}\right] - 15 B \operatorname{Sin}\left[2 c + \frac{5 d x}{2}\right] +$$
$$30 A \operatorname{Sin}\left[3 c + \frac{5 d x}{2}\right] - 39 B \operatorname{Sin}\left[3 c + \frac{5 d x}{2}\right] - 12 A \operatorname{Sin}\left[4 c + \frac{5 d x}{2}\right] + 21 B \operatorname{Sin}\left[4 c + \frac{5 d x}{2}\right] + 20 A \operatorname{Sin}\left[2 c + \frac{7 d x}{2}\right] -$$
$$\left.32 B \operatorname{Sin}\left[2 c + \frac{7 d x}{2}\right] + 6 A \operatorname{Sin}\left[3 c + \frac{7 d x}{2}\right] - 12 B \operatorname{Sin}\left[3 c + \frac{7 d x}{2}\right] + 14 A \operatorname{Sin}\left[4 c + \frac{7 d x}{2}\right] - 20 B \operatorname{Sin}\left[4 c + \frac{7 d x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Sec}[c + d x]^2 (A + B \operatorname{Sec}[c + d x])}{(a + a \operatorname{Sec}[c + d x])^2}, x, 3, 0\right\}$$

$$\frac{B\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^2\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-4\,B)\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$-\frac{1}{6\,a^2\,d\,(1+\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c+d\,x]^2$$
$$\left(3\,B\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+3\,B\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$9\,B\,\text{Cos}\left[\frac{d\,x}{2}\right]\,\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$9\,B\,\text{Cos}\left[c+\frac{d\,x}{2}\right]\,\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$3\,B\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-3\,B\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$\left.6\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+18\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-6\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-2\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+8\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 3,\ 0\right\}$$
$$\frac{A\,x}{a^2}-\frac{(A-B)\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(4\,A-B)\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$\frac{1}{24\,a^2\,d}\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3$$
$$\left(9\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+9\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+3\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+3\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-18\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+\right.$$
$$\left.6\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+12\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-6\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-10\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+4\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 5,\ 0\right\}$$
$$\frac{(7\,A-4\,B)\,x}{2\,a^2}-\frac{2\,(8\,A-5\,B)\,\text{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{(7\,A-4\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^2\,d}-$$
$$\frac{(A-B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(8\,A-5\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$\frac{1}{48\,a^2\,d\,(1+\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c+d\,x]^2$$
$$\left(36\,(7\,A-4\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+36\,(7\,A-4\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+84\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-48\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+\right.$$
$$84\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-48\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-381\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+264\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+147\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-120\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$
$$239\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+164\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-63\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+36\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-15\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$\left.12\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-15\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+12\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+3\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+3\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 6,\ 0\right\}$$

$$-\frac{(10\,A-7\,B)\,x}{2\,a^2}+\frac{8\,(3\,A-2\,B)\,\text{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(10\,A-7\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^2\,d}+\frac{4\,(3\,A-2\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(10\,A-7\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{192\,a^2\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\left(-36\,(10\,A-7\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-36\,(10\,A-7\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]-120\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+84\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-120\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+84\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+516\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-381\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-156\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+147\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+342\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-239\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+118\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-63\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+30\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-15\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+30\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-15\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-3\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+3\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-3\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+3\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^5\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 6,\ 0\right\}$$

$$-\frac{(6\,A-13\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^3\,d}+\frac{8\,(9\,A-19\,B)\,\text{Tan}[c+d\,x]}{15\,a^3\,d}-\frac{(6\,A-13\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^3\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(6\,A-11\,B)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{4\,(9\,A-19\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{480\,a^3\,d\,(B+A\,\text{Cos}[c+d\,x])\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\left(1920\,(6\,A-13\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\left(5\,(174\,A-247\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]-5\,(366\,A-761\,B)\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+2094\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-4329\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-1314\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+1989\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+1650\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-3575\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+450\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-475\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-1230\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+2005\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+1050\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-2275\,B\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-1278\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+2673\,B\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+90\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+105\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-918\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+1593\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+450\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-975\,B\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-630\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+1325\,B\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-60\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+255\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-480\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+875\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+90\,A\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-195\,B\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-144\,A\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+304\,B\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-30\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+90\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-114\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+214\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 5,\ 0\right\}$$

$$\frac{(A-3\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^3\,d}-\frac{2\,(11\,A-36\,B)\,\text{Tan}[c+d\,x]}{15\,a^3\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(4\,A-9\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-3\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{120\,a^3\,d\,(B+A\,\text{Cos}[c+d\,x])\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(-960\,(A-3\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(5\,(32\,A-51\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]+(-167\,A+567\,B)\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+170\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$
$$600\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-170\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+375\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+160\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-480\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+$$
$$75\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-60\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-167\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+402\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+75\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-$$
$$225\,B\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-95\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+315\,B\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+30\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$95\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+240\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-45\,B\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-$$
$$\left.22\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+72\,B\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+15\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-22\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+57\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 4,\ 0\right\}$$

$$\frac{A\,x}{a^3}-\frac{(A-B)\,\text{Tan}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(7\,A-2\,B)\,\text{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{2\,(11\,A-B)\,\text{Tan}[c+d\,x]}{15\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{480\,a^3\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$
$$\left(150\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+150\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+15\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+\right.$$
$$15\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-370\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+80\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+270\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-60\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-230\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$\left.40\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+90\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-30\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-64\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+14\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 6,\ 0\right\}$$

$$\frac{(13\,A-6\,B)\,x}{2\,a^3}-\frac{8\,(19\,A-9\,B)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}+\frac{(13\,A-6\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^3\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(11\,A-6\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{4\,(19\,A-9\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{15\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{480\,a^3\,d\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c+d\,x]^3$$
$$\left(600\,(13\,A-6\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+600\,(13\,A-6\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+3900\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-1800\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+\right.$$
$$3900\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-1800\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+780\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-360\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$780\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-360\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-12\,760\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+7020\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+7560\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$
$$4500\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-9230\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+4860\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+930\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-900\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$
$$2782\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+1452\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-750\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+300\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-105\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.60\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-105\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+60\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$
$$-\frac{(23\,A-13\,B)\,x}{2\,a^3}+\frac{8\,(34\,A-19\,B)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(23\,A-13\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^3\,d}+\frac{4\,(34\,A-19\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-$$
$$\frac{(A-B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(13\,A-8\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(23\,A-13\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{480\,a^3\,d\,(1+\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c+d\,x]^3$$
$$\left(-600\,(23\,A-13\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-600\,(23\,A-13\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]-6900\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+3900\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-\right.$$
$$6900\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+3900\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-1380\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+780\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$1380\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+780\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+20\,410\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-12\,760\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-11\,110\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+$$
$$7560\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+15\,380\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-9230\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-380\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+930\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$4777\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-2782\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+1625\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-750\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$
$$230\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-105\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+230\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-105\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-20\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+$$
$$\left.15\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-20\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+15\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+5\,A\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+5\,A\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^6\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,7,\,0\right\}$$
$$-\frac{(8\,A-21\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^4\,d}+\frac{8\,(83\,A-216\,B)\,\text{Tan}[c+d\,x]}{105\,a^4\,d}-$$
$$\frac{(8\,A-21\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^4\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^5\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}+\frac{(A-2\,B)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+$$
$$\frac{(52\,A-129\,B)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{4\,(83\,A-216\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{6720\, a^4\, d\, (B + A\, \mathrm{Cos}[c + d\, x])\, (1 + \mathrm{Sec}[c + d\, x])^4}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c + d\, x)\right] \mathrm{Sec}[c + d\, x]^3\, (A + B\, \mathrm{Sec}[c + d\, x]) \left(53\,760\, (8\, A - 21\, B)\, \mathrm{Cos}\left[\frac{1}{2}\,(c + d\, x)\right]^7 \right.$$

$$\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c + d\, x)\right] - \mathrm{Sin}\left[\frac{1}{2}\,(c + d\, x)\right]\right] - \mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c + d\, x)\right] + \mathrm{Sin}\left[\frac{1}{2}\,(c + d\, x)\right]\right]\right) - \mathrm{Sec}\left[\frac{c}{2}\right] \mathrm{Sec}[c]\, \mathrm{Sec}[c + d\, x]^2$$

$$\left(14\, (2762\, A - 5229\, B)\, \mathrm{Sin}\left[\frac{d\, x}{2}\right] + (-64\,384\, A + 166\,668\, B)\, \mathrm{Sin}\left[\frac{3\, d\, x}{2}\right] + 70\,896\, A\, \mathrm{Sin}\left[c - \frac{d\, x}{2}\right] - 183\,162\, B\, \mathrm{Sin}\left[c - \frac{d\, x}{2}\right] - \right.$$

$$50\,316\, A\, \mathrm{Sin}\left[c + \frac{d\, x}{2}\right] + 100\,842\, B\, \mathrm{Sin}\left[c + \frac{d\, x}{2}\right] + 59\,248\, A\, \mathrm{Sin}\left[2\, c + \frac{d\, x}{2}\right] - 155\,526\, B\, \mathrm{Sin}\left[2\, c + \frac{d\, x}{2}\right] + 22\,820\, A\, \mathrm{Sin}\left[c + \frac{3\, d\, x}{2}\right] -$$

$$37\,380\, B\, \mathrm{Sin}\left[c + \frac{3\, d\, x}{2}\right] - 48\,004\, A\, \mathrm{Sin}\left[2\, c + \frac{3\, d\, x}{2}\right] + 101\,148\, B\, \mathrm{Sin}\left[2\, c + \frac{3\, d\, x}{2}\right] + 39\,200\, A\, \mathrm{Sin}\left[3\, c + \frac{3\, d\, x}{2}\right] -$$

$$102\,900\, B\, \mathrm{Sin}\left[3\, c + \frac{3\, d\, x}{2}\right] - 46\,032\, A\, \mathrm{Sin}\left[c + \frac{5\, d\, x}{2}\right] + 119\,364\, B\, \mathrm{Sin}\left[c + \frac{5\, d\, x}{2}\right] + 8750\, A\, \mathrm{Sin}\left[2\, c + \frac{5\, d\, x}{2}\right] -$$

$$8820\, B\, \mathrm{Sin}\left[2\, c + \frac{5\, d\, x}{2}\right] - 35\,742\, A\, \mathrm{Sin}\left[3\, c + \frac{5\, d\, x}{2}\right] + 78\,204\, B\, \mathrm{Sin}\left[3\, c + \frac{5\, d\, x}{2}\right] + 19\,040\, A\, \mathrm{Sin}\left[4\, c + \frac{5\, d\, x}{2}\right] -$$

$$49\,980\, B\, \mathrm{Sin}\left[4\, c + \frac{5\, d\, x}{2}\right] - 24\,664\, A\, \mathrm{Sin}\left[2\, c + \frac{7\, d\, x}{2}\right] + 64\,053\, B\, \mathrm{Sin}\left[2\, c + \frac{7\, d\, x}{2}\right] + 1050\, A\, \mathrm{Sin}\left[3\, c + \frac{7\, d\, x}{2}\right] +$$

$$3885\, B\, \mathrm{Sin}\left[3\, c + \frac{7\, d\, x}{2}\right] - 19\,834\, A\, \mathrm{Sin}\left[4\, c + \frac{7\, d\, x}{2}\right] + 44\,733\, B\, \mathrm{Sin}\left[4\, c + \frac{7\, d\, x}{2}\right] + 5880\, A\, \mathrm{Sin}\left[5\, c + \frac{7\, d\, x}{2}\right] -$$

$$15\,435\, B\, \mathrm{Sin}\left[5\, c + \frac{7\, d\, x}{2}\right] - 8456\, A\, \mathrm{Sin}\left[3\, c + \frac{9\, d\, x}{2}\right] + 21\,987\, B\, \mathrm{Sin}\left[3\, c + \frac{9\, d\, x}{2}\right] - 630\, A\, \mathrm{Sin}\left[4\, c + \frac{9\, d\, x}{2}\right] +$$

$$3675\, B\, \mathrm{Sin}\left[4\, c + \frac{9\, d\, x}{2}\right] - 6986\, A\, \mathrm{Sin}\left[5\, c + \frac{9\, d\, x}{2}\right] + 16\,107\, B\, \mathrm{Sin}\left[5\, c + \frac{9\, d\, x}{2}\right] + 840\, A\, \mathrm{Sin}\left[6\, c + \frac{9\, d\, x}{2}\right] -$$

$$2205\, B\, \mathrm{Sin}\left[6\, c + \frac{9\, d\, x}{2}\right] - 1328\, A\, \mathrm{Sin}\left[4\, c + \frac{11\, d\, x}{2}\right] + 3456\, B\, \mathrm{Sin}\left[4\, c + \frac{11\, d\, x}{2}\right] - 210\, A\, \mathrm{Sin}\left[5\, c + \frac{11\, d\, x}{2}\right] +$$

$$\left.\left.840\, B\, \mathrm{Sin}\left[5\, c + \frac{11\, d\, x}{2}\right] - 1118\, A\, \mathrm{Sin}\left[6\, c + \frac{11\, d\, x}{2}\right] + 2616\, B\, \mathrm{Sin}\left[6\, c + \frac{11\, d\, x}{2}\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c + d\, x]^5\, (A + B\, \mathrm{Sec}[c + d\, x])}{(a + a\, \mathrm{Sec}[c + d\, x])^4}, x, 6, 0\right\}$$

$$\frac{(A - 4\, B)\, \mathrm{ArcTanh}[\mathrm{Sin}[c + d\, x]]}{a^4\, d} - \frac{8\, (20\, A - 83\, B)\, \mathrm{Tan}[c + d\, x]}{105\, a^4\, d} + \frac{(A - B)\, \mathrm{Sec}[c + d\, x]^4\, \mathrm{Tan}[c + d\, x]}{7\, d\, (a + a\, \mathrm{Sec}[c + d\, x])^4} +$$

$$\frac{(5\, A - 12\, B)\, \mathrm{Sec}[c + d\, x]^3\, \mathrm{Tan}[c + d\, x]}{35\, a\, d\, (a + a\, \mathrm{Sec}[c + d\, x])^3} + \frac{(25\, A - 88\, B)\, \mathrm{Sec}[c + d\, x]^2\, \mathrm{Tan}[c + d\, x]}{105\, a^2\, d\, (a + a\, \mathrm{Sec}[c + d\, x])^2} + \frac{(A - 4\, B)\, \mathrm{Sec}[c + d\, x]\, \mathrm{Tan}[c + d\, x]}{a^3\, d\, (a + a\, \mathrm{Sec}[c + d\, x])}$$

$$\frac{1}{1680\,a^4\,d\,(B+A\,\text{Cos}[c+d\,x])\,(1+\text{Sec}[c+d\,x])^4}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])$$
$$\left(-26\,880\,(A-4\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(245\,(17\,A-44\,B)\,\text{Sin}\left[\frac{d\,x}{2}\right]-7\,(635\,A-2684\,B)\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+4795\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$
$$20\,524\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-4795\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+14\,644\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+4165\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-16\,660\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+$$
$$2275\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-4690\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-4445\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+14\,378\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$2275\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-9100\,B\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-2785\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+11\,668\,B\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+$$
$$735\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-630\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-2785\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+9358\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+735\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-$$
$$2940\,B\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-1015\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+4228\,B\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$315\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-1015\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+3493\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-420\,B\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-$$
$$\left.\left.160\,A\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+664\,B\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+105\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-160\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+559\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,5,\,0\right\}$$

$$\frac{A\,x}{a^4}-\frac{(A-B)\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-\frac{(10\,A-3\,B)\,\text{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(55\,A-6\,B)\,\text{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{2\,(80\,A-3\,B)\,\text{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{13\,440\,a^4\,d}$$
$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(3675\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+3675\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+2205\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+2205\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+\right.$$
$$735\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+735\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+105\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+105\,A\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-$$
$$9940\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+1260\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+8260\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-1260\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-7140\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$882\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+3780\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-630\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-2800\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$\left.294\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+840\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-210\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-520\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+72\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,7,\,0\right\}$$

$$\frac{(21\,A-8\,B)\,x}{2\,a^4}-\frac{8\,(216\,A-83\,B)\,\text{Sin}[c+d\,x]}{105\,a^4\,d}+\frac{(21\,A-8\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^4\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-$$
$$\frac{(2\,A-B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{5\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(129\,A-52\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{4\,(216\,A-83\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{105\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{6720\,a^4\,d\,(1+\text{Sec}[c+d\,x])^4}\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c+d\,x]^4\left(14\,700\,(21\,A-8\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+14\,700\,(21\,A-8\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+\right.$$
$$185\,220\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-70\,560\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+185\,220\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-70\,560\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$61\,740\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-23\,520\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+61\,740\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-23\,520\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$
$$8820\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]-3360\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+8820\,A\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-3360\,B\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-$$
$$539\,490\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+243\,320\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+386\,190\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-184\,520\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-422\,478\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$184\,464\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+132\,930\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-72\,240\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-181\,461\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$77\,168\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+3675\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-8400\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-36\,003\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$15\,164\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-9555\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+2940\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-945\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+$$
$$\left.420\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-945\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+420\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^4},\ x,\ 8,\ 0\right\}$$

$$-\frac{(44\,A-21\,B)\,x}{2\,a^4}+\frac{16\,(227\,A-108\,B)\,\text{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{(44\,A-21\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^4\,d}+$$
$$\frac{8\,(227\,A-108\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-\frac{(16\,A-9\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$
$$\frac{(178\,A-87\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(44\,A-21\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{6720\,a^4\,d\,(1+\text{Sec}[c+d\,x])^4}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c+d\,x]^4\left(-14\,700\,(44\,A-21\,B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-14\,700\,(44\,A-21\,B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]-\right.$$
$$388\,080\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+185\,220\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-388\,080\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+185\,220\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$
$$129\,360\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+61\,740\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-129\,360\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+61\,740\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-$$
$$18\,480\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+8820\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]-18\,480\,A\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+8820\,B\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+$$
$$1\,010\,660\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-539\,490\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-687\,260\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+386\,190\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+814\,107\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-$$
$$422\,478\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-204\,645\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+132\,930\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+357\,609\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$181\,461\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+18\,025\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+3675\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+72\,522\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-$$
$$36\,003\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+24\,010\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-9555\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+2310\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-$$
$$945\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+2310\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-945\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-175\,A\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+$$
$$\left.105\,B\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]-175\,A\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]+105\,B\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]+35\,A\,\text{Sin}\left[6\,c+\frac{13\,d\,x}{2}\right]+35\,A\,\text{Sin}\left[7\,c+\frac{13\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 3,\ 0\right\}$$

$$\frac{2\sqrt{a}\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{d}+\frac{2\,a\,B\,\text{Tan}[c+d\,x]}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])}\,2\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,(A+B\,\text{Sec}[c+d\,x])\left(-4\left(-3-2\sqrt{2}\right)A\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\right.$$
$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)$$
$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]\right)$$
$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]$$
$$\left.\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}+B\,\text{Cos}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]\right),\ x,\ 2,\ 0\right\}$$

$$\frac{\sqrt{a}\,(A+2\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{d}+\frac{a\,A\,\text{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-\frac{1}{2}\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{1}{2}\,A\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)}{d}-$$

$$\frac{1}{d}\,4\left(-3-2\sqrt{2}\right)(A+2\,B)\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\text{Sec}[c+d\,x]\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]\right),\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{a}\,(3\,A+4\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{a\,(3\,A+4\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{(3\,A+4\,B+2\,A\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)}{8\,d}+$$

$$\frac{1}{d}\left(-2-\frac{3}{\sqrt{2}}\right)(3\,A+4\,B)\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}[c+d\,x]\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^3\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]\right),\ x,\ 4,\ 0\right\}$$

$$\frac{\sqrt{a}\,(5A+6B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{a\,(5A+6B)\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(5A+6B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,d}\left(19A+18B+2\,(5A+6B)\,\text{Cos}[c+d\,x]+4\,A\,\text{Cos}[2\,(c+d\,x)]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

$$\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\frac{1}{\left(8-6\sqrt{2}\right)d}\,(5A+6B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^4\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,5,\,0\right\}$$

$$\frac{5\sqrt{a}\,(7A+8B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{64\,d}+\frac{5\,a\,(7A+8B)\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{5\,a\,(7A+8B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(7A+8B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]^3\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{384\,d}\left(133A+152B+2\,(53A+40B)\,\text{Cos}[c+d\,x]+4\,(7A+8B)\,\text{Cos}[2\,(c+d\,x)]+12\,A\,\text{Cos}[3\,(c+d\,x)]\right)$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(64-48\sqrt{2}\right)d}\,5\,(7A+8B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\,17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,4,\,0\right\}$$

$$\frac{2 a^{3/2} A \operatorname{ArcTan}\left[\frac{\sqrt{a} \operatorname{Tan}[c+d x]}{\sqrt{a+a \operatorname{Sec}[c+d x]}}\right]}{d}+\frac{2 a^2 (3 A+4 B) \operatorname{Tan}[c+d x]}{3 d \sqrt{a+a \operatorname{Sec}[c+d x]}}+\frac{2 a B \sqrt{a+a \operatorname{Sec}[c+d x]} \operatorname{Tan}[c+d x]}{3 d}$$

$$\frac{1}{d (B+A \operatorname{Cos}[c+d x])}$$

$$\operatorname{Cos}[c+d x] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^3 (a (1+\operatorname{Sec}[c+d x]))^{3/2} (A+B \operatorname{Sec}[c+d x]) \left(\frac{1}{3}(B+(3 A+5 B) \operatorname{Cos}[c+d x]) \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]-\right.$$

$$4\left(-3-2\sqrt{2}\right) A \operatorname{Cos}\left[\frac{1}{4}(c+d x)\right]^4 \sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}} \left(1-\sqrt{2}+\left(-2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left(\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\frac{\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]+2 \operatorname{EllipticPi}\left[-3+2\sqrt{2}, -\operatorname{ArcSin}\left[\frac{\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]\right)$$

$$\left.\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]\right) \operatorname{Sec}\left[\frac{1}{4}(c+d x)\right]^2} \sqrt{3-2\sqrt{2}-\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]^2}\right)$$

Incorrect antiderivative:

$$\{\operatorname{Cos}[c+d x] (a+a \operatorname{Sec}[c+d x])^{3/2} (A+B \operatorname{Sec}[c+d x]), x, 3, 0\}$$

$$\frac{a^{3/2} (3 A+2 B) \operatorname{ArcTan}\left[\frac{\sqrt{a} \operatorname{Tan}[c+d x]}{\sqrt{a+a \operatorname{Sec}[c+d x]}}\right]}{d}+\frac{a^2 (A-2 B) \operatorname{Sin}[c+d x]}{d \sqrt{a+a \operatorname{Sec}[c+d x]}}+\frac{2 a B \sqrt{a+a \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{d}$$

$$\frac{\operatorname{Cos}[c+d x] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^3 (a (1+\operatorname{Sec}[c+d x]))^{3/2} \left(\frac{1}{4}(-A+4 B) \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+\frac{1}{4} A \operatorname{Sin}\left[\frac{3}{2}(c+d x)\right]\right)}{d}-$$

$$\frac{1}{d} 2\left(-3-2\sqrt{2}\right) (3 A+2 B) \operatorname{Cos}\left[\frac{1}{4}(c+d x)\right]^4 \sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]}} \left(1-\sqrt{2}+\left(-2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left(\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\frac{\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]+2 \operatorname{EllipticPi}\left[-3+2\sqrt{2}, -\operatorname{ArcSin}\left[\frac{\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right], 17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right) \operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]\right) \operatorname{Sec}\left[\frac{1}{4}(c+d x)\right]^2}$$

$$\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^3 (a (1+\operatorname{Sec}[c+d x]))^{3/2} \sqrt{3-2\sqrt{2}-\operatorname{Tan}\left[\frac{1}{4}(c+d x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 3,\ 0\}$$

$$\frac{a^{3/2}\,(7\,A+12\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{a^2\,(5\,A+4\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{a\,(7\,A+4\,B+2\,A\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{8\,d}+$$

$$\frac{1}{\left(8-6\,\sqrt{2}\right)\,d}\,(7\,A+12\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$\frac{a^{3/2}\,(11\,A+14\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{a^2\,(11\,A+14\,B)\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(7\,A+6\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}$$

$$\left(-\frac{1}{96}\,(17\,A+30\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{24}\,(7\,A+9\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\frac{1}{32}\,(3\,A+2\,B)\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+\frac{1}{48}\,A\,\text{Sin}\left[\frac{7}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(16-12\,\sqrt{2}\right)\,d}\,(11\,A+14\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^4\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\frac{a^{3/2}\,(75\,A+88\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{64\,d}+\frac{a^2\,(75\,A+88\,B)\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(75\,A+88\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(9\,A+8\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,A\,\text{Cos}[c+d\,x]^3\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}$$

$$\left(-\frac{1}{768}\,(129\,A+136\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{96}\,(27\,A+28\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\right.$$

$$\left.\frac{1}{256}\,(23\,A+24\,B)\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+\frac{1}{96}\,(3\,A+2\,B)\,\text{Sin}\left[\frac{7}{2}\,(c+d\,x)\right]+\frac{1}{128}\,A\,\text{Sin}\left[\frac{9}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(128-96\,\sqrt{2}\right)\,d}\,(75\,A+88\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\,-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,5,\,0\right\}$$

$$\frac{2\,a^{5/2}\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{d}+\frac{2\,a^3\,(35\,A+32\,B)\,\text{Tan}[c+d\,x]}{15\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(5\,A+8\,B)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}+\frac{2\,a\,B\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])}\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left(\frac{1}{30}\,(40\,A+43\,B)\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{10}\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{30}\,\mathrm{Sec}[c+d\,x]\,\left(5\,A\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+14\,B\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)-\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,2\,\left(-3-2\,\sqrt{2}\right)\,A\,\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^4\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Cos}[c+d\,x]^2\,\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\,\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]\right)\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\,\sqrt{3-2\,\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,4,\,0\right\}$$

$$\frac{a^{5/2}\,(5\,A+2\,B)\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{d}-\frac{a^3\,(3\,A+14\,B)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,(A+2\,B)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}+\frac{2\,a\,B\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{d}\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(\frac{1}{24}\,(9\,A+32\,B)\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{6}\,B\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{8}\,A\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\frac{1}{d}\,\left(-2-\frac{3}{\sqrt{2}}\right)\,(5\,A+2\,B)\,\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\mathrm{Cos}[c+d\,x]\,\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]+2\,\mathrm{EllipticPi}\left[-3+2\,\sqrt{2},\,-\mathrm{ArcSin}\left[\frac{\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\,17-12\,\sqrt{2}\right]\right)\,\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\sqrt{3-2\,\sqrt{2}-\mathrm{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$\frac{a^{5/2}\,(19\,A+20\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{a^3\,(9\,A-4\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{a^2\,(A-4\,B)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{a\,A\,\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(\frac{3}{32}\,(-3\,A+4\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{16}\,(5\,A+2\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\frac{1}{32}\,A\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(16-12\,\sqrt{2}\right)\,d}\,(19\,A+20\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$\frac{a^{5/2}\,(25\,A+38\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,d}+\frac{a^3\,(49\,A+54\,B)\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(3\,A+2\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{a\,A\,\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\left(-\frac{1}{192}\,(47\,A+54\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.$$

$$\left.\frac{1}{48}\,(16\,A+15\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\frac{1}{64}\,(5\,A+2\,B)\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+\frac{1}{96}\,A\,\text{Sin}\left[\frac{7}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(32-24\,\sqrt{2}\right)\,d}\,(25\,A+38\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^4\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\frac{a^{5/2}\,(163\,A+200\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{64\,d}+\frac{a^3\,(163\,A+200\,B)\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(95\,A+104\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(11\,A+8\,B)\,\text{Cos}[c+d\,x]^2\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,d}+\frac{a\,A\,\text{Cos}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-\frac{(265\,A+376\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{1536}+\frac{1}{192}\,(55\,A+64\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\right.$$

$$\left.\frac{1}{512}\,(47\,A+40\,B)\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]+\frac{1}{192}\,(5\,A+2\,B)\,\text{Sin}\left[\frac{7}{2}\,(c+d\,x)\right]+\frac{1}{256}\,A\,\text{Sin}\left[\frac{9}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{128\,d}\left(4+3\sqrt{2}\right)(163\,A+200\,B)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],\ 17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\{\text{Cos}[c+d\,x]^5\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\frac{a^{5/2}\,(283\,A+326\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{128\,d}+\frac{a^3\,(283\,A+326\,B)\,\text{Sin}[c+d\,x]}{128\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^3\,(283\,A+326\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(157\,A+170\,B)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{240\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(13\,A+10\,B)\,\text{Cos}[c+d\,x]^3\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{40\,d}+\frac{a\,A\,\text{Cos}[c+d\,x]^4\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$

$$\left(-\frac{(2309\,A+2650\,B)\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]}{15\,360}+\frac{(509\,A+550\,B)\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]}{1920}+\frac{(95\,A+94\,B)\,\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]}{1024}+\right.$$

$$\left.\frac{1}{960}(32\,A+25\,B)\,\text{Sin}\left[\frac{7}{2}(c+d\,x)\right]+\frac{1}{512}(5\,A+2\,B)\,\text{Sin}\left[\frac{9}{2}(c+d\,x)\right]+\frac{1}{640}A\,\text{Sin}\left[\frac{11}{2}(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(512-384\sqrt{2}\right)d}(283\,A+326\,B)\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},x,2,0\right\}$$

$$\frac{\sqrt{2}\,(A-B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}+\frac{2\,B\,\text{Tan}[c+d\,x]}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left((A+B\,\text{Sec}[c+d\,x])\left(2\,(A-B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right]\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{1+\text{Sec}[c+d\,x]}+\right.\right.$$

$$\left.\left.\sqrt{2}\,B\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[2\,(c+d\,x)]\right)\right)\Big/$$

$$\left(d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{a\,(1+\text{Sec}[c+d\,x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},x,3,0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{\sqrt{2}\,(A-B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}$$

$$\frac{\sqrt{2}\left((-A+B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right]+\sqrt{2}\,A\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Sec}[c+d\,x]}\sqrt{1+\text{Sec}[c+d\,x]}}{d\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{(7\,A-4\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,\sqrt{a}\,d}-\frac{\sqrt{2}\,(A-B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{(A-4\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\sqrt{\text{Sec}[c+d\,x]}\left(\frac{\left(-8\,(A-B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,(7\,A-4\,B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\left.\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(-A+4\,B+2\,A\,\text{Cos}[c+d\,x])\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{(9\,A-14\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,\sqrt{a}\,d}+\frac{\sqrt{2}\,(A-B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}+$$

$$\frac{(7\,A-2\,B)\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(A-6\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\sqrt{\text{Sec}[c+d\,x]}\left(\frac{\left(16\,(A-B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,(-9\,A+14\,B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{1}{3}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(25\,A-6\,B-2\,(A-6\,B)\,\text{Cos}[c+d\,x]+4\,A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$-\frac{(7\,A-11\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(15\,A-19\,B)\,\text{Tan}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(3\,A-7\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]\left(-6\,(7\,A-11\,B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}+\sqrt{2}\,\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,((15\,A-19\,B)\,\text{Sin}[c+d\,x]+4\,(B+3\,(A-B)\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x])\right)\right)\Big/\left(3\,d\,(1+\text{Cos}[c+d\,x])\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{(3\,A-7\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{(A-5\,B)\,\text{Tan}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]\left(2(3A-7B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\text{Sec}[c+d x]}\sqrt{1+\text{Sec}[c+d x]}+\sqrt{2}\sqrt{\frac{1}{1+\text{Cos}[c+d x]}}\left(-(A-5B)\,\text{Sin}[c+d x]+4B\,\text{Tan}[c+d x]\right)\right)\right)\Big/\left(d(1+\text{Cos}[c+d x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\,(a(1+\text{Sec}[c+d x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]\,(A+B\,\text{Sec}[c+d x])}{(a+a\,\text{Sec}[c+d x])^{3/2}},\ x,\ 2,\ 0\right\}$$

$$\frac{(A+3B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{2}\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{2\sqrt{2}\,a^{3/2}\,d}+\frac{(A-B)\,\text{Tan}[c+d x]}{2\,d\,(a+a\,\text{Sec}[c+d x])^{3/2}}$$

$$\left(2\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Sec}[c+d x]\left((A+3B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\text{Sec}[c+d x]}\sqrt{1+\text{Sec}[c+d x]}+\sqrt{2}\,(A-B)\sqrt{\frac{1}{1+\text{Cos}[c+d x]}}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right)\Big/\left(d(1+\text{Cos}[c+d x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\,(a(1+\text{Sec}[c+d x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]}{(a+a\,\text{Sec}[c+d x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{2A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{a^{3/2}\,d}-\frac{(5A-B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{2}\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{2\sqrt{2}\,a^{3/2}\,d}-\frac{(A-B)\,\text{Tan}[c+d x]}{2\,d\,(a+a\,\text{Sec}[c+d x])^{3/2}}$$

$$\left(\cos\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{\sec[c+d x]}\,(A+B\sec[c+d x])\left(\frac{\left((-5A+B)\,\text{ArcSin}\left[\tan\left[\frac{1}{2}(c+d x)\right]\right]+4\sqrt{2}\,A\,\text{ArcTan}\left[\frac{\tan\left[\frac{1}{2}(c+d x)\right]}{\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}}\right]\right)\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\,\sqrt{1+\sec[c+d x]}}{\sqrt{\sec\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{1}{2}(A-B)\sec\left[\frac{1}{2}(c+d x)\right]\sqrt{\sec[c+d x]}\left(\sin\left[\frac{1}{2}(c+d x)\right]-\sin\left[\frac{3}{2}(c+d x)\right]\right)\right)\right)\Big/\left(d\,(B+A\cos[c+d x])\,(a\,(1+\sec[c+d x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\cos[c+d x]\,(A+B\sec[c+d x])}{(a+a\sec[c+d x])^{3/2}},\ x,\ 5,\ 0\right\}$$

$$-\frac{(3A-2B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\tan[c+d x]}{\sqrt{a+a\sec[c+d x]}}\right]}{a^{3/2}\,d}+\frac{(9A-5B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\tan[c+d x]}{\sqrt{2}\,\sqrt{a+a\sec[c+d x]}}\right]}{2\sqrt{2}\,a^{3/2}\,d}-\frac{(A-B)\sin[c+d x]}{2\,d\,(a+a\sec[c+d x])^{3/2}}+\frac{(3A-B)\sin[c+d x]}{2\,a\,d\,\sqrt{a+a\sec[c+d x]}}$$

$$\frac{1}{d\,(a\,(1+\sec[c+d x]))^{3/2}}\cos\left[\frac{1}{2}(c+d x)\right]^2\sec[c+d x]^{3/2}\left(\frac{\left((9A-5B)\,\text{ArcSin}\left[\tan\left[\frac{1}{2}(c+d x)\right]\right]+2\sqrt{2}\,(-3A+2B)\,\text{ArcTan}\left[\frac{\tan\left[\frac{1}{2}(c+d x)\right]}{\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}}\right]\right)\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\,\sqrt{1+\sec[c+d x]}}{\sqrt{\sec\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{1}{2}(3A-B+2A\cos[c+d x])\sec\left[\frac{1}{2}(c+d x)\right]\sqrt{\sec[c+d x]}\left(-\sin\left[\frac{1}{2}(c+d x)\right]+\sin\left[\frac{3}{2}(c+d x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\cos[c+d x]^2\,(A+B\sec[c+d x])}{(a+a\sec[c+d x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(19A-12B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{4a^{3/2}d}-\frac{(13A-9B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{2\sqrt{2}\,a^{3/2}d}-$$

$$\frac{(A-B)\,\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{2d\,(a+a\,\text{Sec}[c+dx])^{3/2}}-\frac{(7A-6B)\,\text{Sin}[c+dx]}{4ad\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{(2A-B)\,\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{2ad\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{1}{2d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]^{3/2}$$

$$\left(\frac{\left((-26A+18B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right]+\sqrt{2}\,(19A-12B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\,\sqrt{1+\text{Sec}[c+dx]}}{\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}+\right.$$

$$\frac{1}{2}\left(-6A+6B+(-3A+4B)\,\text{Cos}[c+dx]+A\,\text{Cos}[2(c+dx)]\right)$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}\,\left(-\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{3}{2}(c+dx)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+dx]^3\,(A+B\,\text{Sec}[c+dx])}{(a+a\,\text{Sec}[c+dx])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{(47A-38B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{8a^{3/2}d}+\frac{(17A-13B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{2\sqrt{2}\,a^{3/2}d}-\frac{(A-B)\,\text{Cos}[c+dx]^2\,\text{Sin}[c+dx]}{2d\,(a+a\,\text{Sec}[c+dx])^{3/2}}+$$

$$\frac{7(3A-2B)\,\text{Sin}[c+dx]}{8ad\sqrt{a+a\,\text{Sec}[c+dx]}}-\frac{(13A-12B)\,\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{12ad\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{(5A-3B)\,\text{Cos}[c+dx]^2\,\text{Sin}[c+dx]}{6ad\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{1}{4d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]^{3/2}$$

$$\left(\frac{\left((68A-52B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right]+\sqrt{2}\,(-47A+38B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\,\sqrt{1+\text{Sec}[c+dx]}}{\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}+\right.$$

$$\frac{1}{6}\left(60A-36B+(43A-18B)\,\text{Cos}[c+dx]-3(A-2B)\,\text{Cos}[2(c+dx)]+2A\,\text{Cos}[3(c+dx)]\right)$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}\,\left(-\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{3}{2}(c+dx)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 5,\ 0\right\}$$

$$-\frac{(75\,A-163\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}+$$

$$\frac{(9\,A-17\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(147\,A-299\,B)\,\text{Tan}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(39\,A-95\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{12\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]^{5/2}\left(-3\,(75\,A-163\,B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right.$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}+\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Sec}[c+d\,x]}$$

$$\left.\left(-6\,A+6\,B+(-39\,A+63\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4(294\,A-598\,B+64\,B\,\text{Sec}[c+d\,x])\right)\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{(19\,A-75\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}+$$

$$\frac{(5\,A-13\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{(9\,A-49\,B)\,\text{Tan}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]^{5/2}\left((19\,A-75\,B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}-\right.\right.$$

$$\left.\left.\frac{\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,(9\,A-113\,B+2\,(13\,A-85\,B)\,\text{Cos}[c+d\,x]+(9\,A-49\,B)\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}}\right)\right)\Big/$$

$$\left(4\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{(3A+5B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}+\frac{(A-B)\,\text{Tan}[c+dx]}{4\,d\,(a+a\,\text{Sec}[c+dx])^{5/2}}+\frac{(3A+5B)\,\text{Tan}[c+dx]}{16\,a\,d\,(a+a\,\text{Sec}[c+dx])^{3/2}}$$

$$\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]^5\text{Sec}[c+dx]^{3/2}(A+B\,\text{Sec}[c+dx])\right.$$

$$\left(4\,(3A+5B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\,\sqrt{1+\text{Sec}[c+dx]}+\right.$$

$$\left.\left.\sqrt{2}\,\sqrt{\frac{1}{1+\text{Cos}[c+dx]}}\,(3A+5B+(7A+B)\,\text{Cos}[c+dx])\,\sqrt{\text{Sec}[c+dx]}\,\left(-\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{3}{2}(c+dx)\right]\right)\right)\right)\Big/$$

$$\left(4\,d\,(1+\text{Cos}[c+dx])^2\,(B+A\,\text{Cos}[c+dx])\,\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\,(a\,(1+\text{Sec}[c+dx]))^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+dx]}{(a+a\,\text{Sec}[c+dx])^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{a^{5/2}\,d}-\frac{(43A-3B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-\frac{(A-B)\,\text{Tan}[c+dx]}{4\,d\,(a+a\,\text{Sec}[c+dx])^{5/2}}-\frac{(11A-3B)\,\text{Tan}[c+dx]}{16\,a\,d\,(a+a\,\text{Sec}[c+dx])^{3/2}}$$

$$\frac{1}{4\,d\,(B+A\,\text{Cos}[c+dx])\,(a\,(1+\text{Sec}[c+dx]))^{5/2}}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^4\text{Sec}[c+dx]^{3/2}\,(A+B\,\text{Sec}[c+dx])$$

$$\left(\frac{\left((-43A+3B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right]+32\sqrt{2}\,A\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\,\sqrt{1+\text{Sec}[c+dx]}}{\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}+\right.$$

$$\left.\frac{1}{4}\,(11A-3B+(15A-7B)\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3\sqrt{\text{Sec}[c+dx]}\,\left(\text{Sin}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{3}{2}(c+dx)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+dx]\,(A+B\,\text{Sec}[c+dx])}{(a+a\,\text{Sec}[c+dx])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{(5A-2B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{a^{5/2}\,d}+\frac{(115A-43B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-$$

$$\frac{(A-B)\,\text{Sin}[c+dx]}{4\,d\,(a+a\,\text{Sec}[c+dx])^{5/2}}-\frac{(15A-7B)\,\text{Sin}[c+dx]}{16\,a\,d\,(a+a\,\text{Sec}[c+dx])^{3/2}}+\frac{(35A-11B)\,\text{Sin}[c+dx]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{1}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\text{Sec}[c+d\,x]^{5/2}$$

$$\left(\frac{\left((115\,A-43\,B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+16\,\sqrt{2}\,(-5\,A+2\,B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{1}{4}\,(43\,A-11\,B+5\,(11\,A-3\,B)\,\text{Cos}[c+d\,x]+8\,A\,\text{Cos}[2\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{(39\,A-20\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{5/2}\,d}-\frac{(219\,A-115\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{(19\,A-11\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{7\,(9\,A-5\,B)\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(31\,A-15\,B)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\text{Sec}[c+d\,x]^{5/2}$$

$$\left(\frac{\left((-219\,A+115\,B)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\,\sqrt{2}\,(39\,A-20\,B)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{1}{4}\,(-73\,A+43\,B+(-89\,A+55\,B)\,\text{Cos}[c+d\,x]+(-10\,A+8\,B)\,\text{Cos}[2\,(c+d\,x)]+2\,A\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+A\,\text{Sec}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}},\,x,\,3,\,0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{2\,\sqrt{2}\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}$$

$$-\left(A\left(-1+e^{i\,(c+d\,x)}\right)\left(\sqrt{2}\,d\,x+i\,\sqrt{2}\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+i\,\sqrt{2}\,\text{Log}[2]+4\,i\,\text{Log}\left[-1+e^{i\,(c+d\,x)}\right]+i\,\sqrt{2}\,\text{Log}\left[-d\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-4\,i\,\text{Log}\left[d\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\right)\Big/\left(\sqrt{2}\,d\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,(A+A\,\text{Sec}[c+d\,x])}{\sqrt{a-a\,\text{Sec}[c+d\,x]}},\,x,\,4,\,0\right\}$$

$$\frac{3\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{2\,\sqrt{2}\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}+\frac{A\,\text{Sin}[c+d\,x]}{d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$A\,(1+\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(\frac{1}{d}\sqrt{2}\,e^{-\frac{1}{2}\,i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(-3\,i\,d\,x+3\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+4\,\sqrt{2}\,\text{Log}\left[4\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]+3\,\text{Log}\left[-2\,d\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-4\,\sqrt{2}\,\text{Log}\left[d\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)+\frac{2\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\sqrt{\text{Sec}[c+d\,x]}}{d}\right)\sqrt{\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

Incorrect antiderivative:

$$\left\{\frac{A+A\,\text{Sec}[c+d\,x]}{(a-a\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,4,\,0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{a^{3/2}\,d}-\frac{3\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{2}\,a^{3/2}\,d}-\frac{A\,\text{Tan}[c+d\,x]}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$A\left(\frac{1}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}\sqrt{2}\,e^{-\frac{1}{2}\,i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(2\,i\,d\,x-2\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]-3\,\sqrt{2}\,\text{Log}\left[3\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]-2\,\text{Log}\left[-2\,d\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]+3\,\sqrt{2}\,\text{Log}\left[2\,d\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3+\frac{\text{Sec}[c+d\,x]^2\left(\frac{4\,\text{Cos}\left[\frac{c}{2}\right]\text{Cos}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\text{Cot}\left[\frac{c}{2}\right]\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{d}+\frac{2\,\text{Csc}\left[\frac{c}{2}\right]\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{4\,\text{Sin}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]}{d}\right)\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3}{(a-a\,\text{Sec}[c+d\,x])^{3/2}}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,(A+A\,\text{Sec}[c+d\,x])}{(a-a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{5\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{a^{3/2}\,d}-\frac{7\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{2}\,a^{3/2}\,d}-\frac{A\,\text{Sin}[c+d\,x]}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{2\,A\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$A\left(\frac{1}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}\right.$$

$$\sqrt{2}\,e^{-\frac{1}{2}i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(5\,i\,d\,x-5\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]-7\,\sqrt{2}\,\text{Log}\left[7\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]-\right.$$

$$\left.5\,\text{Log}\left[-2\,d\,\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]+7\,\sqrt{2}\,\text{Log}\left[d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3+$$

$$\frac{1}{(a-a\,\text{Sec}[c+d\,x])^{3/2}}\text{Sec}[c+d\,x]^2\left(\frac{2\,\text{Cos}\left[\frac{c}{2}\right]\,\text{Cos}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\text{Cos}\left[\frac{3\,c}{2}\right]\,\text{Cos}\left[\frac{3\,d\,x}{2}\right]}{d}-\frac{2\,\text{Cot}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{d}+\right.$$

$$\left.\left.\frac{2\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\text{Sin}\left[\frac{c}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{2\,\text{Sin}\left[\frac{3\,c}{2}\right]\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]}{d}\right)\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+A\,\text{Sec}[c+d\,x])}{(a-a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{31\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{3/2}\,d}-\frac{11\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{2}\,a^{3/2}\,d}-$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{13\,A\,\text{Sin}[c+d\,x]}{4\,a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}+\frac{3\,A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$A\left(\frac{1}{2\,\sqrt{2}\,d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}\right.$$

$$e^{-\frac{1}{2}i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(31\,i\,d\,x-31\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]-44\,\sqrt{2}\,\text{Log}\left[44\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]-\right.$$

$$\left.31\,\text{Log}\left[-2\,d\,\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]+44\,\sqrt{2}\,\text{Log}\left[d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3+$$

$$\frac{1}{(a-a\,\text{Sec}[c+d\,x])^{3/2}}\text{Sec}[c+d\,x]^2\left(-\frac{3\,\text{Cos}\left[\frac{c}{2}\right]\,\text{Cos}\left[\frac{d\,x}{2}\right]}{2\,d}-\frac{5\,\text{Cos}\left[\frac{3\,c}{2}\right]\,\text{Cos}\left[\frac{3\,d\,x}{2}\right]}{d}-\frac{\text{Cos}\left[\frac{5\,c}{2}\right]\,\text{Cos}\left[\frac{5\,d\,x}{2}\right]}{2\,d}-\frac{2\,\text{Cot}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{d}+\right.$$

$$\left.\left.\frac{2\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{3\,\text{Sin}\left[\frac{c}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{2\,d}+\frac{5\,\text{Sin}\left[\frac{3\,c}{2}\right]\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]}{d}+\frac{\text{Sin}\left[\frac{5\,c}{2}\right]\,\text{Sin}\left[\frac{5\,d\,x}{2}\right]}{2\,d}\right)\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,(A+A\,\text{Sec}[c+d\,x])}{(a-a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{85\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{8\,a^{3/2}\,d}-\frac{15\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{2}\,a^{3/2}\,d}-\frac{A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{35\,A\,\text{Sin}[c+d\,x]}{8\,a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}+\frac{25\,A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}+\frac{4\,A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{24\,a\,d\,(-1+\text{Sec}[c+d\,x])\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\,A\,e^{-\frac{1}{2}i\,(c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(255\,\sqrt{2}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+15\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(-17\,i\,\sqrt{2}\,d\,x+\right.\right.$$

$$\left.48\,\text{Log}\left[24\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]+17\,\sqrt{2}\,\text{Log}\left[-2\,d\,\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-48\,\text{Log}\left[d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)+$$

$$\frac{1}{2}\left(61\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+120\,\text{Cos}\left[\frac{3}{2}\,(c+d\,x)\right]-72\,\text{Cos}\left[\frac{5}{2}\,(c+d\,x)\right]-11\,\text{Cos}\left[\frac{7}{2}\,(c+d\,x)\right]-2\,\text{Cos}\left[\frac{9}{2}\,(c+d\,x)\right]\right)$$

$$\left.\text{Csc}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\text{Sec}[c+d\,x]}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]^3$$

Incorrect antiderivative:

$$\left\{\frac{A+A\,\text{Sec}[c+d\,x]}{(a-a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}-\frac{23\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{8\,\sqrt{2}\,a^{5/2}\,d}-\frac{A\,\text{Tan}[c+d\,x]}{2\,d\,(a-a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{7\,A\,\text{Tan}[c+d\,x]}{8\,a\,d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$A\left(\frac{1}{2\,\sqrt{2}\,d\,(a-a\,\text{Sec}[c+d\,x])^{5/2}}\right.$$

$$e^{-\frac{1}{2}i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(-16\,i\,d\,x+16\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+23\,\sqrt{2}\,\text{Log}\left[23\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]+\right.$$

$$\left.16\,\text{Log}\left[-d\,\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-23\,\sqrt{2}\,\text{Log}\left[2\,d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5+$$

$$\frac{1}{(a-a\,\text{Sec}[c+d\,x])^{5/2}}\text{Sec}[c+d\,x]^3\left(-\frac{11\,\text{Cos}\left[\frac{c}{2}\right]\,\text{Cos}\left[\frac{d\,x}{2}\right]}{d}+\frac{15\,\text{Cot}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{2\,d}-\frac{\text{Cot}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3}{d}-\right.$$

$$\left.\left.\frac{15\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Sin}\left[\frac{d\,x}{2}\right]}{2\,d}+\frac{\text{Csc}\left[\frac{c}{2}\right]\,\text{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{11\,\text{Sin}\left[\frac{c}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}\right)\,\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,(A+A\,\text{Sec}[c+d\,x])}{(a-a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{7\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}-\frac{79\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{8\,\sqrt{2}\,a^{5/2}\,d}-$$

$$\frac{A\,\text{Sin}[c+d\,x]}{2\,d\,(a-a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{11\,A\,\text{Sin}[c+d\,x]}{8\,a\,d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{23\,A\,\text{Sin}[c+d\,x]}{8\,a^2\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$A\left(\frac{1}{2\sqrt{2}\,d\,(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}}\right.$$

$$e^{-\frac{1}{2}i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(-56\,i\,d\,x+56\,\mathrm{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+79\sqrt{2}\,\mathrm{Log}\left[79\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]+\right.$$

$$\left.56\,\mathrm{Log}\left[-d\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-79\sqrt{2}\,\mathrm{Log}\left[2\,d\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5+$$

$$\frac{1}{(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}}\mathrm{Sec}[c+d\,x]^3\left(-\frac{15\,\mathrm{Cos}\left[\frac{c}{2}\right]\mathrm{Cos}\left[\frac{d\,x}{2}\right]}{d}+\frac{4\,\mathrm{Cos}\left[\frac{3\,c}{2}\right]\mathrm{Cos}\left[\frac{3\,d\,x}{2}\right]}{d}+\frac{23\,\mathrm{Cot}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{2\,d}-\right.$$

$$\frac{\mathrm{Cot}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3}{d}-\frac{23\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{2\,d}+\frac{\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+$$

$$\left.\left.\frac{15\,\mathrm{Sin}\left[\frac{c}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{4\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]}{d}\right)\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^2\,(A+A\,\mathrm{Sec}[c+d\,x])}{(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{59\,A\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}}\right]}{4\,a^{5/2}\,d}-\frac{167\,A\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}}\right]}{8\sqrt{2}\,a^{5/2}\,d}-\frac{A\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{2\,d\,(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{15\,A\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{8\,a\,d\,(a-a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{49\,A\,\mathrm{Sin}[c+d\,x]}{8\,a^2\,d\,\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}}+\frac{23\,A\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{8\,a^2\,d\,\sqrt{a-a\,\mathrm{Sec}[c+d\,x]}}$$

$$A\left(\frac{1}{2\sqrt{2}\,d\,(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}}\right.$$

$$e^{-\frac{1}{2}i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(-118\,i\,d\,x+118\,\mathrm{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+167\sqrt{2}\,\mathrm{Log}\left[167\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]+\right.$$

$$\left.118\,\mathrm{Log}\left[-2\,d\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]-167\sqrt{2}\,\mathrm{Log}\left[2\,d\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5+$$

$$\frac{1}{(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}}\mathrm{Sec}[c+d\,x]^3\left(-\frac{12\,\mathrm{Cos}\left[\frac{c}{2}\right]\mathrm{Cos}\left[\frac{d\,x}{2}\right]}{d}+\frac{14\,\mathrm{Cos}\left[\frac{3\,c}{2}\right]\mathrm{Cos}\left[\frac{3\,d\,x}{2}\right]}{d}+\frac{\mathrm{Cos}\left[\frac{5\,c}{2}\right]\mathrm{Cos}\left[\frac{5\,d\,x}{2}\right]}{d}+\right.$$

$$\frac{31\,\mathrm{Cot}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]}{2\,d}-\frac{\mathrm{Cot}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3}{d}-\frac{31\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{2\,d}+$$

$$\left.\left.\frac{\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Csc}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{12\,\mathrm{Sin}\left[\frac{c}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{14\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]}{d}-\frac{\mathrm{Sin}\left[\frac{5\,c}{2}\right]\mathrm{Sin}\left[\frac{5\,d\,x}{2}\right]}{d}\right)\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^3\,(A+A\,\mathrm{Sec}[c+d\,x])}{(a-a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{203\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{8\,a^{5/2}\,d}-\frac{287\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\right]}{8\,\sqrt{2}\,a^{5/2}\,d}-\frac{A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{2\,d\,(a-a\,\text{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{19\,A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{8\,a\,d\,(a-a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{21\,A\,\text{Sin}[c+d\,x]}{2\,a^2\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}+\frac{119\,A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{24\,a^2\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}+\frac{77\,A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{24\,a^2\,d\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}$$

$$-\frac{1}{12\,a^2\,d\,(-1+\text{Sec}[c+d\,x])^2\,\sqrt{a-a\,\text{Sec}[c+d\,x]}}\,A\,e^{-\frac{1}{2}i\,(c+d\,x)}\,\text{Sec}[c+d\,x]^{5/2}$$

$$\left(-609\,\sqrt{2}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{ArcSinh}\left[e^{i\,(c+d\,x)}\right]+21\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(29\,i\,\sqrt{2}\,d\,x-\right.\right.$$

$$\left.82\,\text{Log}\left[41\,\sqrt{2}\,\left(-1+e^{i\,(c+d\,x)}\right)\right]-29\,\sqrt{2}\,\text{Log}\left[-2\,d\,\left(1+\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]+82\,\text{Log}\left[d\,\left(1+e^{i\,(c+d\,x)}+\sqrt{2}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right)\right]\right)+$$

$$\frac{1}{8}\left(173\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-575\,\text{Cos}\left[\frac{3}{2}\,(c+d\,x)\right]+625\,\text{Cos}\left[\frac{5}{2}\,(c+d\,x)\right]-112\,\text{Cos}\left[\frac{7}{2}\,(c+d\,x)\right]-13\,\text{Cos}\left[\frac{9}{2}\,(c+d\,x)\right]-\right.$$

$$\left.2\,\text{Cos}\left[\frac{11}{2}\,(c+d\,x)\right]\right)\,\text{Csc}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\sqrt{\text{Sec}[c+d\,x]}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,8,\,0\}$$

$$-\frac{4\,a^2\,(4\,A+3\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^2\,(7\,A+6\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{4\,a^2\,(4\,A+3\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{4\,a^2\,(7\,A+6\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{2\,a^2\,(7\,A+9\,B)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,a\,B\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{210\,(B+A\,\text{Cos}[c+d\,x])}$$

$$a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])\,\Bigg(-\frac{1}{d}84\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^3$$

$$\text{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}63\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{70\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{60\,B\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{42\,(4\,A+3\,B)\,\text{Cos}[d\,x]\,\text{Csc}[c]+\left(70\,A+60\,B+21\,(A+2\,B)\,\text{Sec}[c+d\,x]+15\,B\,\text{Sec}[c+d\,x]^2\right)\,\text{Tan}[c+d\,x]}{d\,\text{Sec}[c+d\,x]^{5/2}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 7,\ 0\right\}$$

$$-\frac{4\,a^2\,(5\,A+4\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^2\,(2\,A+B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{4\,a^2\,(5\,A+4\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+$$

$$\frac{2\,a^2\,(5\,A+7\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,B\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{30\,d\,\left(1+e^{2\,i\,(c+d\,x)}\right)^2\,(B+A\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]^{5/2}}$$

$$a^2\,e^{-i\,(c+d\,x)}\left(10\,(2\,A+B)\,e^{i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-\right.$$

$$i\,\left(-30\,A-24\,B-5\,A\,e^{i\,(c+d\,x)}-10\,B\,e^{i\,(c+d\,x)}-60\,A\,e^{2\,i\,(c+d\,x)}-54\,B\,e^{2\,i\,(c+d\,x)}-30\,A\,e^{4\,i\,(c+d\,x)}-18\,B\,e^{4\,i\,(c+d\,x)}+\right.$$

$$\left.\left.5\,A\,e^{5\,i\,(c+d\,x)}+10\,B\,e^{5\,i\,(c+d\,x)}+6\,(5\,A+4\,B)\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)\right)$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{4\,a^2\,B\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d}+$$

$$\frac{4\,a^2\,(3\,A+2\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{2\,a^2\,(3\,A+5\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,a\,B\,\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,(B+A\,\text{Cos}[c+d\,x])}$$

$$a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])\left(-\frac{1}{d\,\left(-1+e^{2\,i\,c}\right)}\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^3\right.$$

$$\left(3\,B\,\left(1+e^{2\,i\,(c+d\,x)}\right)+3\,B\,\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$\left.(3\,A+2\,B)\,e^{i\,(c+d\,x)}\,\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\left.\frac{-3\,(-A-4\,B+A\,\text{Cos}[2\,c])\,\text{Cos}[d\,x]\,\text{Csc}[c]+6\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]+2\,B\,\text{Tan}[c+d\,x]}{4\,d\,\text{Sec}[c+d\,x]^{5/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{4 a^2 A \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{d}+\frac{4 a^2 (2 A+3 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}-\frac{2 a^2 (A-3 B)\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{3 d}+\frac{2 a A (a+a\,\text{Sec}[c+d x])\ \text{Sin}[c+d x]}{3 d\sqrt{\text{Sec}[c+d x]}}$$

$$\frac{1}{3 d}a^2\sqrt{\text{Sec}[c+d x]}\left(-12 i A\,\text{Cos}[c+d x]+12 i A e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]-4 i (2 A+3 B)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2 i (c+d x)}\right]+6 B\,\text{Sin}[c+d x]+A\,\text{Sin}[2 (c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^2 (A+B\,\text{Sec}[c+d x])}{\text{Sec}[c+d x]^{5/2}},x,6,0\right\}$$

$$\frac{4 a^2 (4 A+5 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+\frac{4 a^2 (A+2 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}+\frac{2 a^2 (7 A+5 B)\ \text{Sin}[c+d x]}{15 d\sqrt{\text{Sec}[c+d x]}}+\frac{2 a A (a+a\,\text{Sec}[c+d x])\ \text{Sin}[c+d x]}{5 d\,\text{Sec}[c+d x]^{3/2}}$$

$$\frac{1}{30 d}a^2 e^{-i (2 c+d x)}\sqrt{\text{Sec}[c+d x]}\left(40 (A+2 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+24 i (4 A+5 B) e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+2\,\text{Cos}[c+d x]\left(-12 i (4 A+5 B)+10 (2 A+B)\ \text{Sin}[c+d x]+3 A\,\text{Sin}[2 (c+d x)]\right)\right)(\text{Cos}[2 c+d x]+i\,\text{Sin}[2 c+d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^2 (A+B\,\text{Sec}[c+d x])}{\text{Sec}[c+d x]^{7/2}},x,7,0\right\}$$

$$\frac{4 a^2 (3 A+4 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+\frac{4 a^2 (6 A+7 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+\frac{2 a^2 (9 A+7 B)\ \text{Sin}[c+d x]}{35 d\,\text{Sec}[c+d x]^{3/2}}+\frac{4 a^2 (6 A+7 B)\ \text{Sin}[c+d x]}{21 d\sqrt{\text{Sec}[c+d x]}}+\frac{2 a A (a+a\,\text{Sec}[c+d x])\ \text{Sin}[c+d x]}{7 d\,\text{Sec}[c+d x]^{5/2}}$$

$$\frac{1}{420 d}a^2\sqrt{\text{Sec}[c+d x]}\left(80 (6 A+7 B)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+336 i (3 A+4 B) e^{-i (c+d x)}\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+2\,\text{Cos}[c+d x]\left(-504 i A-672 i B+5 (51 A+56 B)\ \text{Sin}[c+d x]+42 (2 A+B)\ \text{Sin}[2 (c+d x)]+15 A\,\text{Sin}[3 (c+d x)]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Sec}[c+d\,x]^{9/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{4\,a^2\,(8\,A+9\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^2\,(5\,A+6\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a^2\,(11\,A+9\,B)\,\mathrm{Sin}[c+d\,x]}{63\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{4\,a^2\,(8\,A+9\,B)\,\mathrm{Sin}[c+d\,x]}{45\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(5\,A+6\,B)\,\mathrm{Sin}[c+d\,x]}{21\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,A\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{9\,d\,\mathrm{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\Big(480\,(5\,A+6\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+$$
$$672\,i\,(8\,A+9\,B)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,\mathrm{Cos}[c+d\,x]\,(-2688\,i\,A-3024\,i\,B+30\,(46\,A+51\,B)\,\mathrm{Sin}[c+d\,x]+14\,(37\,A+36\,B)\,\mathrm{Sin}[2\,(c+d\,x)]+$$
$$180\,A\,\mathrm{Sin}[3\,(c+d\,x)]+90\,B\,\mathrm{Sin}[3\,(c+d\,x)]+35\,A\,\mathrm{Sin}[4\,(c+d\,x)])\Big)\,(\mathrm{Cos}[2\,c+d\,x]+i\,\mathrm{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 9,\ 0\right\}$$

$$-\frac{4\,a^3\,(21\,A+17\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^3\,(13\,A+11\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}+\frac{4\,a^3\,(21\,A+17\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{4\,a^3\,(13\,A+11\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{4\,a^3\,(24\,A+23\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,a^2\,(9\,A+13\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{63\,d}+\frac{2\,a\,B\,\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{9\,d}$$

$$-\frac{1}{10\sqrt{2}\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}7\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])-\frac{1}{30\sqrt{2}\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}17\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])+$$

$$\frac{13\,A\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}+$$

$$\frac{11\,B\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}+$$

$$\frac{1}{(B+A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{(21\,A+17\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]}{30\,d}+\right.$$

$$\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{36\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(7\,B\,\mathrm{Sin}[c]+9\,A\,\mathrm{Sin}[d\,x]+27\,B\,\mathrm{Sin}[d\,x])}{252\,d}+$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(45\,A\,\mathrm{Sin}[c]+135\,B\,\mathrm{Sin}[c]+189\,A\,\mathrm{Sin}[d\,x]+238\,B\,\mathrm{Sin}[d\,x])}{1260\,d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(189\,A\,\mathrm{Sin}[c]+238\,B\,\mathrm{Sin}[c]+390\,A\,\mathrm{Sin}[d\,x]+330\,B\,\mathrm{Sin}[d\,x])}{1260\,d}+\frac{(13\,A+11\,B)\,\mathrm{Tan}[c]}{42\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,8,\,0\right\}$$

$$-\frac{4\,a^3\,(9\,A+7\,B)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^3\,(21\,A+13\,B)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{4\,a^3\,(9\,A+7\,B)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d}+\frac{4\,a^3\,(42\,A+41\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,a^2\,(7\,A+11\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{35\,d}+\frac{2\,a\,B\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{420\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$

$$\left(-42\,i\,\sqrt{2}\,(9\,A+7\,B)\,e^{i\,c}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+\frac{1}{\left(1+e^{2\,i\,(c+d\,x)}\right)^3}\right.$$

$$e^{i\,c}\left(-i\left(21\,A\left(-18-5\,e^{i\,(c+d\,x)}-56\,e^{2\,i\,(c+d\,x)}-5\,e^{3\,i\,(c+d\,x)}-54\,e^{4\,i\,(c+d\,x)}+5\,e^{5\,i\,(c+d\,x)}-16\,e^{6\,i\,(c+d\,x)}+5\,e^{7\,i\,(c+d\,x)}\right)+\right.\right.$$

$$\left.2\,B\left(-147-65\,e^{i\,(c+d\,x)}-504\,e^{2\,i\,(c+d\,x)}-95\,e^{3\,i\,(c+d\,x)}-441\,e^{4\,i\,(c+d\,x)}+95\,e^{5\,i\,(c+d\,x)}-84\,e^{6\,i\,(c+d\,x)}+65\,e^{7\,i\,(c+d\,x)}\right)\right)+$$

$$\left.10\,(21\,A+13\,B)\,e^{i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^3\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\right)$$

$$\left.\sqrt{\mathrm{Sec}[c+d\,x]}\right)\,(1+\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{4\,a^3\,(5\,A+9\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^3\,(5\,A+3\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{4\,a^3\,(20\,A+21\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{2\,a^2\,(5\,A+9\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{30\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\mathrm{Sec}[c+d\,x]^{5/2}\left(90\,i\,A\,\mathrm{Cos}[c+d\,x]+162\,i\,B\,\mathrm{Cos}[c+d\,x]+\right.$$

$$30\,i\,A\,\mathrm{Cos}[3\,(c+d\,x)]+54\,i\,B\,\mathrm{Cos}[3\,(c+d\,x)]+40\,(5\,A+3\,B)\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-$$

$$6\,i\,(5\,A+9\,B)\,e^{-3\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+45\,A\,\mathrm{Sin}[c+d\,x]+66\,B\,\mathrm{Sin}[c+d\,x]+$$

$$\left.10\,A\,\mathrm{Sin}[2\,(c+d\,x)]+30\,B\,\mathrm{Sin}[2\,(c+d\,x)]+45\,A\,\mathrm{Sin}[3\,(c+d\,x)]+54\,B\,\mathrm{Sin}[3\,(c+d\,x)]\right)\,(\mathrm{Cos}[2\,c+d\,x]+i\,\mathrm{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{20\,a^3\,(A+B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{4\,a^3\,(A+4\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}-$$

$$\frac{2\,a^2\,(A-B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,a\,A\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}$$
$$\Big(-12\,i\,A+12\,i\,B-12\,i\,A\,\text{Cos}[2\,(c+d\,x)]+12\,i\,B\,\text{Cos}[2\,(c+d\,x)]+40\,(A+B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$12\,i\,(A-B)\,e^{-2\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+A\,\text{Sin}[c+d\,x]+$$
$$4\,B\,\text{Sin}[c+d\,x]+6\,A\,\text{Sin}[2\,(c+d\,x)]+18\,B\,\text{Sin}[2\,(c+d\,x)]+A\,\text{Sin}[3\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(9\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(3\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{4\,a^3\,(6\,A-5\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+$$
$$\frac{2\,a^2\,(9\,A+5\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\,a^3\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(-216\,i\,A\,\text{Cos}[c+d\,x]-120\,i\,B\,\text{Cos}[c+d\,x]+40\,(3\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$24\,i\,(9\,A+5\,B)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$3\,A\,\text{Sin}[c+d\,x]+60\,B\,\text{Sin}[c+d\,x]+30\,A\,\text{Sin}[2\,(c+d\,x)]+10\,B\,\text{Sin}[2\,(c+d\,x)]+3\,A\,\text{Sin}[3\,(c+d\,x)]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(7\,A+9\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(13\,A+21\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{4\,a^3\,(41\,A+42\,B)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$
$$\frac{2\,a^2\,(11\,A+7\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\,a^3\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(80\,(13\,A+21\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$336\,i\,(7\,A+9\,B)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$2\,\text{Cos}[c+d\,x]\,(5\,(107\,A+84\,B)\,\text{Sin}[c+d\,x]+3\,(-56\,i\,(7\,A+9\,B)+14\,(3\,A+B)\,\text{Sin}[2\,(c+d\,x)]+5\,A\,\text{Sin}[3\,(c+d\,x)]))\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\right\}$$

$$\frac{4 a^3 (17 A+21 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+$$
$$\frac{4 a^3 (11 A+13 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+\frac{4 a^3 (23 A+24 B)\ \text{Sin}[c+d x]}{105 d\ \text{Sec}[c+d x]^{3/2}}+$$
$$\frac{4 a^3 (11 A+13 B)\ \text{Sin}[c+d x]}{21 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (13 A+9 B)(a+a\ \text{Sec}[c+d x])\ \text{Sin}[c+d x]}{63 d\ \text{Sec}[c+d x]^{5/2}}+\frac{2 a A (a+a\ \text{Sec}[c+d x])^2\ \text{Sin}[c+d x]}{9 d\ \text{Sec}[c+d x]^{7/2}}$$
$$\frac{1}{2520 d} a^3 e^{-i (2 c+d x)} \sqrt{\text{Sec}[c+d x]}\Big(480 (11 A+13 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+$$
$$672 i (17 A+21 B) e^{-i (c+d x)} \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+$$
$$2 \text{Cos}[c+d x] (-5712 i A-7056 i B+30 (97 A+107 B)\ \text{Sin}[c+d x]+14 (73 A+54 B)\ \text{Sin}[2 (c+d x)]+$$
$$270 A\ \text{Sin}[3 (c+d x)]+90 B\ \text{Sin}[3 (c+d x)]+35 A\ \text{Sin}[4 (c+d x)])\Big)(\text{Cos}[2 c+d x]+i\ \text{Sin}[2 c+d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\ \text{Sec}[c+d x])^3 (A+B\ \text{Sec}[c+d x])}{\text{Sec}[c+d x]^{11/2}}, x, 9, 0\right\}$$

$$\frac{4 a^3 (15 A+17 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+$$
$$\frac{4 a^3 (105 A+121 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{231 d}+$$
$$\frac{20 a^3 (21 A+22 B)\ \text{Sin}[c+d x]}{693 d\ \text{Sec}[c+d x]^{5/2}}+\frac{4 a^3 (15 A+17 B)\ \text{Sin}[c+d x]}{45 d\ \text{Sec}[c+d x]^{3/2}}+\frac{4 a^3 (105 A+121 B)\ \text{Sin}[c+d x]}{231 d \sqrt{\text{Sec}[c+d x]}}+$$
$$\frac{2 a^2 (15 A+11 B)(a+a\ \text{Sec}[c+d x])\ \text{Sin}[c+d x]}{99 d\ \text{Sec}[c+d x]^{7/2}}+\frac{2 a A (a+a\ \text{Sec}[c+d x])^2\ \text{Sin}[c+d x]}{11 d\ \text{Sec}[c+d x]^{9/2}}$$
$$\frac{1}{55440 d} a^3 e^{-i (2 c+d x)} \sqrt{\text{Sec}[c+d x]}$$
$$\Big(960 (105 A+121 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+14784 i (15 A+17 B) e^{-i (c+d x)} \sqrt{1+e^{2 i (c+d x)}}$$
$$\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+2 \text{Cos}[c+d x] (-110880 i A-125664 i B+$$
$$30 (1953 A+2134 B)\ \text{Sin}[c+d x]+308 (75 A+73 B)\ \text{Sin}[2 (c+d x)]+8505 A\ \text{Sin}[3 (c+d x)]+5940 B\ \text{Sin}[3 (c+d x)]+$$
$$2310 A\ \text{Sin}[4 (c+d x)]+770 B\ \text{Sin}[4 (c+d x)]+315 A\ \text{Sin}[5 (c+d x)])\Big)(\text{Cos}[2 c+d x]+i\ \text{Sin}[2 c+d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{7/2} (A+B\ \text{Sec}[c+d x])}{a+a\ \text{Sec}[c+d x]}, x, 8, 0\right\}$$

$$\frac{3 (5 A-7 B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 a d}+$$
$$\frac{5 (A-B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a d}-\frac{3 (5 A-7 B) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{5 a d}+$$
$$\frac{5 (A-B)\ \text{Sec}[c+d x]^{3/2}\ \text{Sin}[c+d x]}{3 a d}-\frac{(5 A-7 B)\ \text{Sec}[c+d x]^{5/2}\ \text{Sin}[c+d x]}{5 a d}+\frac{(A-B)\ \text{Sec}[c+d x]^{7/2}\ \text{Sin}[c+d x]}{d (a+a\ \text{Sec}[c+d x])}$$

$$\frac{1}{15\,a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{45\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}-\right.$$

$$\frac{63\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$+\frac{50\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-$$

$$\frac{50\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{1}{d}\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(-18\,(5\,A-7\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+\right.$$

$$\left.\left.(25\,A-13\,B+4\,(5\,A-2\,B)\,\mathrm{Cos}[c+d\,x]+25\,(A-B)\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,7,\,0\right\}$$

$$-\frac{3\,(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}-$$

$$\frac{(3\,A-5\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+\frac{3\,(A-B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{a\,d}-$$

$$\frac{(3\,A-5\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{9\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\right.$$

$$\frac{9\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$-\frac{6\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{10\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{2\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(9\,(A-B)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+(-3\,A+5\,B+2\,B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{a+a\,\text{Sec}[c+d\,x]},\ x,\ 6,\ 0\right\}$$

$$\frac{(A-3\,B)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{(A-B)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{(A-3\,B)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{a\,d}+\frac{(A-B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,(B+A\,\text{Cos}[c+d\,x])\,(1+\text{Sec}[c+d\,x])}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(\frac{\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \text{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d}-\frac{3\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \text{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}-\frac{2\,B\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+\frac{\left(2\,B\,\text{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(-A+B)\,\text{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]-(A-3\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d}\right)(A+B\,\text{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\ (A+B\,\text{Sec}[c+d\,x])}{a+a\,\text{Sec}[c+d\,x]},\ x,\ 5,\ 0\right\}$$

$$-\frac{(A-B)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{(A+B)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+\frac{(A-B)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\left(-\frac{\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\right.$$

$$\frac{\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}+$$

$$\frac{2\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{(A-B)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]\right)\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}\right)\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,5,\,0\right\}$$

$$\frac{(3\,A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}-$$

$$\frac{(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}-\frac{(A-B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\left(\frac{3\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}-\right.$$

$$\frac{\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}-$$

$$\frac{2\,\left((2\,A-B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]\right)\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}\right)\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\ x,\ 6,\ 0\right\}$$

$$-\frac{3\,(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}+$$

$$\frac{(5\,A-3\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(5\,A-3\,B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{9\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\right.$$

$$\frac{9\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$+\frac{10\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-$$

$$\frac{6\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left((13\,A-12\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(5\,A-6\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+2\,A\,\mathrm{Sin}[c]\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\ x,\ 7,\ 0\right\}$$

$$\frac{3\,(7\,A-5\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,a\,d}-$$

$$\frac{5\,(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(7\,A-5\,B)\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{5\,(A-B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{15\,a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{63\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}-\right.$$

$$\frac{45\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$-\frac{50\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{50\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-\frac{1}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left((83\,A-65\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(43\,A-25\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+\right.$$

$$\left.\left.2\,(2\,A-5\,B+2\,(2\,A-5\,B)\,\mathrm{Cos}[c+d\,x]-3\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sin}[c]\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Sec}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,8,\,0\right\}$$

$$-\frac{21\,(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,a\,d}+$$

$$\frac{5\,(9\,A-7\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,a\,d}+\frac{(9\,A-7\,B)\,\mathrm{Sin}[c+d\,x]}{7\,a\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{7\,(A-B)\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{5\,(9\,A-7\,B)\,\mathrm{Sin}[c+d\,x]}{21\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{105\,a\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left(-\frac{1}{d}441\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\right.\right.$$

$$\left.\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{1}{d}441\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{450\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-$$

$$\frac{350\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{1}{4\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left((2439\,A-2324\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(1089\,A-1204\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+2\,(201\,A-56\,B+\right.$$

$$\left.2\,(201\,A-56\,B)\,\mathrm{Cos}[c+d\,x]+(-24\,A+84\,B)\,\mathrm{Cos}[2\,(c+d\,x)]+30\,A\,\mathrm{Cos}[3\,(c+d\,x)]\right)\,\mathrm{Sin}[c]\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{7/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$-\frac{(4\,A-7\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,d}-$$

$$\frac{5\,(A-2\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a^2\,d}+\frac{(4\,A-7\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{a^2\,d}-$$

$$\frac{5\,(A-2\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(4\,A-7\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(8\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/$$

$$\left(d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+\left(14\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/\left(d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\frac{20\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\,(A+B\,\mathrm{Sec}[c+dx])}{3\,d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{40\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\,(A+B\,\mathrm{Sec}[c+dx])}{3\,d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{1}{(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Sec}[c+dx]^{3/2}\,(A+B\,\mathrm{Sec}[c+dx])$$

$$\left(-\frac{2\,(-4A+7B)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}-\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3\,B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-6\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+11\,B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+$$

$$\left.\frac{8\,B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{3\,d}+\frac{4\,(2B-5A\,\mathrm{Cos}[c]+10\,B\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}+\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{(a+a\,\mathrm{Sec}[c+dx])^2},x,7,0\right\}$$

$$\frac{(A-4B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{a^2\,d}+$$

$$\frac{(2A-5B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3\,a^2\,d}-\frac{(A-4B)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{a^2\,d}+$$

$$\frac{(A-B)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{3\,d\,(a+a\,\mathrm{Sec}[c+dx])^2}+\frac{(2A-5B)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$-\frac{1}{6 a^2 d (1+\text{Sec}[c+d x])^2} e^{-i (2 c+d x)} \text{Cos}\left[\frac{1}{2} (c+d x)\right] \text{Sec}[c+d x]^{5/2}$$
$$\left(-3 i (A-4 B) e^{-2 i (c+d x)} \left(1+e^{i (c+d x)}\right)^3 \sqrt{1+e^{2 i (c+d x)}} \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right] - \right.$$
$$8 (2 A-5 B) \text{Cos}\left[\frac{1}{2} (c+d x)\right]^3 \sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \left(\text{Cos}\left[\frac{1}{2} (c+d x)\right]+i \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)+$$
$$i (5 A-29 B+2 (7 A-25 B) \text{Cos}[c+d x]+(5 A-17 B) \text{Cos}[2 (c+d x)]+12 i B \text{Sin}[c+d x]-$$
$$\left. i A \text{Sin}[2 (c+d x)]+7 i B \text{Sin}[2 (c+d x)]\right)\Bigg) \left(\text{Cos}\left[\frac{1}{2} (3 c+d x)\right]+i \text{Sin}\left[\frac{1}{2} (3 c+d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{3/2} (A+B \text{Sec}[c+d x])}{(a+a \text{Sec}[c+d x])^2}, x, 6, 0\right\}$$
$$\frac{B \sqrt{\text{Cos}[c+d x]} \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{(A+2 B) \sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 a^2 d}+$$
$$\frac{(A-B) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}-\frac{B \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{a d (a+a \text{Sec}[c+d x])}$$
$$\frac{1}{3 a^2 (B+A \text{Cos}[c+d x]) (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]^4$$
$$\left(\frac{1}{d \left(-1+e^{2 i c}\right)} 4 i \sqrt{2} e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(3 B \left(1+e^{2 i (c+d x)}\right)+3 B \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2},\right.\right.\right.$$
$$\left.\frac{3}{4}, -e^{2 i (c+d x)}\right]-(A+2 B) e^{i (c+d x)} \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \text{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right]\Bigg)+$$
$$\left.\frac{\left((A-7 B) \text{Cos}\left[\frac{1}{2} (c-d x)\right]-(A+2 B) \text{Cos}\left[\frac{1}{2} (3 c+d x)\right]-3 B \text{Cos}\left[\frac{1}{2} (c+3 d x)\right]\right) \text{Csc}[c] \text{Sec}\left[\frac{1}{2} (c+d x)\right]^3}{d \sqrt{\text{Sec}[c+d x]}}\right) \text{Sec}[c+$$
$$d x] (A+B \text{Sec}[c+d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]} (A+B \text{Sec}[c+d x])}{(a+a \text{Sec}[c+d x])^2}, x, 6, 0\right\}$$
$$-\frac{A \sqrt{\text{Cos}[c+d x]} \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d}+\frac{(2 A+B) \sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 a^2 d}+$$
$$\frac{(A-B) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}+\frac{(2 A+B) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{3 a d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^4 \left(-\frac{1}{d \left(-1 + e^{2 i c}\right)} 4 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1 + e^{2 i (c+d x)}}} \left(3 A \left(1 + e^{2 i (c+d x)}\right) + 3 A \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right] + (2 A + B) e^{i (c+d x)} \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right]\right) + \frac{\left((5 A + B) \operatorname{Cos}\left[\frac{1}{2} (c - d x)\right] + (4 A - B) \operatorname{Cos}\left[\frac{1}{2} (3 c + d x)\right] + 3 A \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right]\right) \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^3}{2 d \sqrt{\operatorname{Sec}[c + d x]}}\right) \operatorname{Sec}[c + d x] (A + B \operatorname{Sec}[c + d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A + B \operatorname{Sec}[c + d x]}{\sqrt{\operatorname{Sec}[c + d x]} (a + a \operatorname{Sec}[c + d x])^2}, x, 6, 0\right\}$$

$$\frac{(4 A - B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticE}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{a^2 d} - \frac{(5 A - 2 B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{3 a^2 d} - \frac{(A - B) \sqrt{\operatorname{Sec}[c + d x]} \operatorname{Sin}[c + d x]}{3 d (a + a \operatorname{Sec}[c + d x])^2} - \frac{(5 A - 2 B) \sqrt{\operatorname{Sec}[c + d x]} \operatorname{Sin}[c + d x]}{3 a d (a + a \operatorname{Sec}[c + d x])}$$

$$\frac{1}{3 a^2 (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^4 \left(\frac{24 \sqrt{2} A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c+d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d} - \frac{6 \sqrt{2} B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c+d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d} - \frac{1}{2 d \sqrt{\operatorname{Sec}[c + d x]}} \left(5 (4 A - B) \operatorname{Cos}\left[\frac{1}{2} (c - d x)\right] + 4 (4 A - B) \operatorname{Cos}\left[\frac{1}{2} (3 c + d x)\right] + 9 A \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] - 3 B \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] + 3 A \operatorname{Cos}\left[\frac{1}{2} (5 c + 3 d x)\right]\right) \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^3 - \frac{20 A \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d} + \frac{8 B \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d}\right) \operatorname{Sec}[c + d x] (A + B \operatorname{Sec}[c + d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A + B \operatorname{Sec}[c + d x]}{\operatorname{Sec}[c + d x]^{3/2} (a + a \operatorname{Sec}[c + d x])^2}, x, 7, 0\right\}$$

$$-\frac{(7A-4B)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a^2 d}+$$

$$\frac{5(2A-B)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3a^2 d}+\frac{5(2A-B)\text{Sin}[c+dx]}{3a^2 d\sqrt{\text{Sec}[c+dx]}}-$$

$$\frac{(A-B)\text{Sin}[c+dx]}{3d\sqrt{\text{Sec}[c+dx]}\ (a+a\text{Sec}[c+dx])^2}-\frac{(7A-4B)\text{Sin}[c+dx]}{3ad\sqrt{\text{Sec}[c+dx]}\ (a+a\text{Sec}[c+dx])}$$

$$\frac{1}{3a^2(B+A\text{Cos}[c+dx])(1+\text{Sec}[c+dx])^2}\text{Cos}\left[\frac{1}{2}(c+dx)\right]^4\left(-\frac{1}{d}42\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)+$$

$$\frac{24\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}$$

$$+\frac{1}{2d\sqrt{\text{Sec}[c+dx]}}\left(8(9A-5B)\text{Cos}\left[\frac{1}{2}(c-dx)\right]+(54A-32B)\text{Cos}\left[\frac{1}{2}(3c+dx)\right]+33A\text{Cos}\left[\frac{1}{2}(c+3dx)\right]-\right.$$

$$\left.18B\text{Cos}\left[\frac{1}{2}(c+3dx)\right]+9A\text{Cos}\left[\frac{1}{2}(5c+3dx)\right]-6B\text{Cos}\left[\frac{1}{2}(5c+3dx)\right]+A\text{Cos}\left[\frac{1}{2}(3c+5dx)\right]-A\text{Cos}\left[\frac{1}{2}(7c+5dx)\right]\right)$$

$$\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3+\frac{40A\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{d}-$$

$$\left.\frac{20B\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{d}\right)\text{Sec}[c+dx](A+B\text{Sec}[c+dx])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\text{Sec}[c+dx]}{\text{Sec}[c+dx]^{5/2}(a+a\text{Sec}[c+dx])^2},x,8,0\right\}$$

$$\frac{7(8A-5B)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5a^2 d}-$$

$$\frac{5(3A-2B)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3a^2 d}+\frac{7(8A-5B)\text{Sin}[c+dx]}{15a^2 d\,\text{Sec}[c+dx]^{3/2}}-$$

$$\frac{5(3A-2B)\text{Sin}[c+dx]}{3a^2 d\sqrt{\text{Sec}[c+dx]}}-\frac{(A-B)\text{Sin}[c+dx]}{3d\,\text{Sec}[c+dx]^{3/2}(a+a\text{Sec}[c+dx])^2}-\frac{(3A-2B)\text{Sin}[c+dx]}{ad\,\text{Sec}[c+dx]^{3/2}(a+a\text{Sec}[c+dx])}$$

$$\frac{1}{15\,a^2\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])^2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4$$

$$\left(\frac{336\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}\right.$$

$$-\frac{1}{d}210\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-\frac{1}{4\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left(5\,(229\,A-144\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(871\,A-540\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+507\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]-330\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+\right.$$

$$165\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]-90\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+11\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]-10\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]-$$

$$\left.11\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]+10\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]-3\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+7\,d\,x)\right]+3\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(9\,c+7\,d\,x)\right]\right)$$

$$\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3-\frac{300\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{200\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}\right)\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{9/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$-\frac{7\,(7\,A-17\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{10\,a^3\,d}-$$

$$\frac{(13\,A-33\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^3\,d}+\frac{7\,(7\,A-17\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d}-$$

$$\frac{(13\,A-33\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{6\,a^3\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^{9/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{(A-2\,B)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{7\,(7\,A-17\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{30\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(98\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/$$

$$\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)+\left(238\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)-$$

$$\frac{52\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{3d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{44\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{1}{(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])$$

$$\left(-\frac{14\,(-7A+17B)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(-8A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+13B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-11A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+26B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-87A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+197B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+\frac{16\,B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{3d}+$$

$$\left.\frac{4\,(4B-13A\,\mathrm{Cos}[c]+33B\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{4\,(-8A+13B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{7/2}\,(A+B\,\mathrm{Sec}[c+dx])}{(a+a\,\mathrm{Sec}[c+dx])^3},x,8,0\right\}$$

$$\frac{(9A-49B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(3A-13B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6a^3d}-\frac{(9A-49B)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{10a^3d}+$$

$$\frac{(A-B)\,\mathrm{Sec}[c+dx]^{7/2}\,\mathrm{Sin}[c+dx]}{5d\,(a+a\,\mathrm{Sec}[c+dx])^3}+\frac{(3A-8B)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{15ad\,(a+a\,\mathrm{Sec}[c+dx])^2}+\frac{(3A-13B)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{6a^2d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\frac{1}{15\,a^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$

$$\left(\frac{54\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}-\right.$$

$$\frac{1}{d}294\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{60\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-$$

$$\frac{260\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}-$$

$$\frac{1}{8\,d}\left(12\,(17\,A-107\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+3\,(67\,A-307\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+213\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]-\right.$$

$$1243\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+84\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]-374\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+120\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]-$$

$$670\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]+15\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]-65\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(7\,c+5\,d\,x)\right]+27\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+7\,d\,x)\right]-$$

$$\left.\left.147\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+7\,d\,x)\right]\right)\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\sqrt{\mathrm{Sec}[c+d\,x]}\right)\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$\frac{(A+9\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(A+3\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^3\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{(A-6\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(A+9\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{15\,a^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$

$$\left(\frac{6\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\right.$$

$$\frac{54\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$-\frac{1}{8\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}\left(2\,(2\,A+93\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(26\,A+84\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+\right.$$

$$10\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+120\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+5\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+15\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+$$

$$\left.3\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]+27\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]\right)\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$\frac{20\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{60\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}\right)\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{(A-B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(A+B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^3\,d}+\frac{(A-B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(A+4\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(A+B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{15\,a^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,(1+\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^6$$

$$\left(-\frac{6\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}+\right.$$

$$\frac{6\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)}{d}$$

$$+\frac{1}{8\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}\,\left(2\,(7\,A-2\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+2\,(8\,A-13\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+\right.$$

$$20\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]-10\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]-5\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]-5\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]+$$

$$\left.3\,A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]-3\,B\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+5\,d\,x)\right]\right)\,\mathrm{Csc}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$\frac{20\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{20\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d}\right)\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{(9\,A+B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(3\,A+B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^3\,d}+\frac{(A-B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{(3\,A+2\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(3\,A+B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{15 a^3 (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^3} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^6 \left(-\frac{1}{d} 54 \sqrt{2} A e^{-i (2 c + d x)} \sqrt{\frac{e^{i (c + d x)}}{1 + e^{2 i (c + d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c + d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c + d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c + d x)}\right]\right) - \frac{6 \sqrt{2} B e^{-i (2 c + d x)} \sqrt{\frac{e^{i (c + d x)}}{1 + e^{2 i (c + d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c + d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c + d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c + d x)}\right]\right)}{d} + \frac{1}{8 d \sqrt{\operatorname{Sec}[c + d x]}} \left(2 (78 A + 7 B) \operatorname{Cos}\left[\frac{1}{2} (c - d x)\right] + 2 (57 A + 8 B) \operatorname{Cos}\left[\frac{1}{2} (3 c + d x)\right] + 90 A \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] + 20 B \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] + 45 A \operatorname{Cos}\left[\frac{1}{2} (5 c + 3 d x)\right] - 5 B \operatorname{Cos}\left[\frac{1}{2} (5 c + 3 d x)\right] + 27 A \operatorname{Cos}\left[\frac{1}{2} (3 c + 5 d x)\right] + 3 B \operatorname{Cos}\left[\frac{1}{2} (3 c + 5 d x)\right]\right) \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^5 + \frac{60 A \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d} + \frac{20 B \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d}\right) \operatorname{Sec}[c + d x]^2 (A + B \operatorname{Sec}[c + d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A + B \operatorname{Sec}[c + d x]}{\sqrt{\operatorname{Sec}[c + d x]} (a + a \operatorname{Sec}[c + d x])^3}, x, 7, 0\right\}$$

$$\frac{(49 A - 9 B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticE}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{10 a^3 d} - \frac{(13 A - 3 B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{6 a^3 d} - \frac{(A - B) \sqrt{\operatorname{Sec}[c + d x]} \operatorname{Sin}[c + d x]}{5 d (a + a \operatorname{Sec}[c + d x])^3} - \frac{(8 A - 3 B) \sqrt{\operatorname{Sec}[c + d x]} \operatorname{Sin}[c + d x]}{15 a d (a + a \operatorname{Sec}[c + d x])^2} - \frac{(13 A - 3 B) \sqrt{\operatorname{Sec}[c + d x]} \operatorname{Sin}[c + d x]}{6 a^2 d (a + a \operatorname{Sec}[c + d x])}$$

$$\left(98\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/$$

$$\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)-\left(18\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)-$$

$$\frac{52\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{3d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{1}{(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])$$

$$\left(-\frac{2\,(39A-9B+10A\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}-\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-23A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+9B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(-17A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+12B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+$$

$$\left.\frac{16\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{d}-\frac{4\,(-23A+9B)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{4\,(-17A+12B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+dx]}{\mathrm{Sec}[c+dx]^{3/2}\,(a+a\,\mathrm{Sec}[c+dx])^3},x,8,0\right\}$$

$$-\frac{7\,(17A-7B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10\,a^3\,d}+$$

$$\frac{(33A-13B)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6\,a^3\,d}+\frac{(33A-13B)\,\mathrm{Sin}[c+dx]}{6\,a^3\,d\sqrt{\mathrm{Sec}[c+dx]}}-$$

$$\frac{(A-B)\,\mathrm{Sin}[c+dx]}{5d\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])^3}-\frac{(2A-B)\,\mathrm{Sin}[c+dx]}{3a\,d\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])^2}-\frac{7\,(17A-7B)\,\mathrm{Sin}[c+dx]}{30\,a^2\,d\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\frac{1}{15 a^3 (B + A \operatorname{Cos}[c + d x]) (1 + \operatorname{Sec}[c + d x])^3} \operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^6 \left(-\frac{1}{d} 714 \sqrt{2} A e^{-i (2 c + d x)} \sqrt{\frac{e^{i (c + d x)}}{1 + e^{2 i (c + d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c + d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c + d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c + d x)}\right]\right) + \frac{1}{d} 294 \sqrt{2} B e^{-i (2 c + d x)} \sqrt{\frac{e^{i (c + d x)}}{1 + e^{2 i (c + d x)}}} \operatorname{Csc}[c] \left(1 + e^{2 i (c + d x)} + \left(-1 + e^{2 i c}\right) \sqrt{1 + e^{2 i (c + d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c + d x)}\right]\right) + \frac{1}{4 d \sqrt{\operatorname{Sec}[c + d x]}} \left((1961 A - 806 B) \operatorname{Cos}\left[\frac{1}{2} (c - d x)\right] + (1609 A - 664 B) \operatorname{Cos}\left[\frac{1}{2} (3 c + d x)\right] + 1165 A \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] - 470 B \operatorname{Cos}\left[\frac{1}{2} (c + 3 d x)\right] + 620 A \operatorname{Cos}\left[\frac{1}{2} (5 c + 3 d x)\right] - 265 B \operatorname{Cos}\left[\frac{1}{2} (5 c + 3 d x)\right] + 292 A \operatorname{Cos}\left[\frac{1}{2} (3 c + 5 d x)\right] - 117 B \operatorname{Cos}\left[\frac{1}{2} (3 c + 5 d x)\right] + 65 A \operatorname{Cos}\left[\frac{1}{2} (7 c + 5 d x)\right] - 30 B \operatorname{Cos}\left[\frac{1}{2} (7 c + 5 d x)\right] + 5 A \operatorname{Cos}\left[\frac{1}{2} (5 c + 7 d x)\right] - 5 A \operatorname{Cos}\left[\frac{1}{2} (9 c + 7 d x)\right]\right) \operatorname{Csc}[c] \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^5 + \frac{660 A \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d} - \frac{260 B \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{d}\right) \operatorname{Sec}[c + d x]^2 (A + B \operatorname{Sec}[c + d x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A + B \operatorname{Sec}[c + d x]}{\operatorname{Sec}[c + d x]^{5/2} (a + a \operatorname{Sec}[c + d x])^3}, x, 9, 0\right\}$$

$$\frac{7 (33 A - 17 B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticE}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{10 a^3 d} - \frac{(21 A - 11 B) \sqrt{\operatorname{Cos}[c + d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), 2\right] \sqrt{\operatorname{Sec}[c + d x]}}{2 a^3 d} + \frac{7 (33 A - 17 B) \operatorname{Sin}[c + d x]}{30 a^3 d \operatorname{Sec}[c + d x]^{3/2}} - \frac{(21 A - 11 B) \operatorname{Sin}[c + d x]}{2 a^3 d \sqrt{\operatorname{Sec}[c + d x]}} - \frac{(A - B) \operatorname{Sin}[c + d x]}{5 d \operatorname{Sec}[c + d x]^{3/2} (a + a \operatorname{Sec}[c + d x])^3} - \frac{(12 A - 7 B) \operatorname{Sin}[c + d x]}{15 a d \operatorname{Sec}[c + d x]^{3/2} (a + a \operatorname{Sec}[c + d x])^2} - \frac{3 (21 A - 11 B) \operatorname{Sin}[c + d x]}{10 a^2 d \operatorname{Sec}[c + d x]^{3/2} (a + a \operatorname{Sec}[c + d x])}$$

$$\left(462\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/$$

$$\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)-\left(238\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]^2\,(A+B\,\mathrm{Sec}[c+dx])\right)\Big/\left(5d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)-$$

$$\frac{84\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{44\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])}{d\,(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{1}{(B+A\,\mathrm{Cos}[c+dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{5/2}\,(A+B\,\mathrm{Sec}[c+dx])\left(\frac{(-329A+178B-133A\,\mathrm{Cos}[2c]+60B\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\right.$$

$$\frac{8(-3A+B)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{3d}+\frac{4A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{5d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(-27A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+22B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(-69A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+43B\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-$$

$$\frac{4(-133A+60B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{5d}+\frac{8(-3A+B)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{3d}+\frac{4A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{5d}-$$

$$\left.\frac{4(-69A+43B)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{4(-27A+22B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{2(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+dx]^{5/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}\,(A+B\,\mathrm{Sec}[c+dx]),\,x,\,5,\,0\right\}$$

$$\frac{a(6A+5B)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{4\sqrt{2}\,d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{a(6A+5B)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{8d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{a(6A+5B)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{12d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{aB\,\mathrm{Sec}[c+dx]^{7/2}\,\mathrm{Sin}[c+dx]}{3d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}$$

$$\frac{i\,(-6A-5B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{-\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{i\,(-6A-5B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{\left(12A+6i\sqrt{2}\,A+10B+5i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{32\left(i+\sqrt{2}\right)d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{(-6A-5B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{32\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{(-6A-5B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{32\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{12\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^3}+\frac{(6A+5B)\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}-$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{12\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^3}+\frac{(-6A-5B)\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}\left(2A\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+B\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}{8\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}\left(2A\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+B\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}{8\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+dx]^{3/2}\sqrt{a+a\,\text{Sec}[c+dx]}\,(A+B\,\text{Sec}[c+dx]),\ x,\ 4,\ 0\right\}$$

$$\frac{a\,(4A+3B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{2\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{a\,(4A+3B)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{4\,d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{a\,B\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{2\,d\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{i\,(-4A-3B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{-\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{8\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{i\,(-4A-3B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{8\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{\left(8A+4i\sqrt{2}\,A+6B+3i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\left(i+\sqrt{2}\right)d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{(-4A-3B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{(-4A-3B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{16\sqrt{2}\,d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{(4A+3B)\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{8\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}+\frac{(-4A-3B)\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}}{8\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}+$$

$$\frac{B\sqrt{a\,(1+\text{Sec}[c+dx])}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{4\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}+\frac{B\sqrt{a\,(1+\text{Sec}[c+dx])}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{4\,d\sqrt{\text{Sec}[c+dx]}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Sec}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}\,(A+B\,\text{Sec}[c+dx]),\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{2}\,a\,(2A+B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{a\,B\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{d\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{1}{8\,d\sqrt{\text{Sec}[c+dx]}}$$

$$\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}\left(-2\,i\sqrt{2}\,(2A+B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]-\right.$$

$$2\,i\sqrt{2}\,(2A+B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]+$$

$$\frac{2\left(2+i\sqrt{2}\right)(2A+B)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]}{i+\sqrt{2}}-\sqrt{2}\,(2A+B)\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-$$

$$\sqrt{2}\,(2A+B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]+$$

$$\left.\frac{4B}{\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]}-\frac{4B}{\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+dx]}\,(A+B\,\text{Sec}[c+dx])}{\sqrt{\text{Sec}[c+dx]}},\ x,\ 3,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a\,B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\left(2\,i+\sqrt{2}\right)d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\left(2\left(-i+\sqrt{2}\right)B\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]+\right.$$

$$2\left(-i+\sqrt{2}\right)B\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]+2\,B\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+$$

$$2\,i\sqrt{2}\,B\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-B\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-i\sqrt{2}\,B$$

$$\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-B\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]-$$

$$\left.i\sqrt{2}\,B\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]+8\,i\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+4\sqrt{2}\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\right\}$$

$$\frac{a^2\,(88\,A+75\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{32\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(88\,A+75\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{64\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(88\,A+75\,B)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{96\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(8\,A+9\,B)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{24\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\,\text{Sec}[c+d\,x]^{7/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{i\,(-88\,A-75\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{256\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{i\,(-88\,A-75\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{256\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{\left(176\,A+88\,i\sqrt{2}\,A+150\,B+75\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{512\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-88\,A-75\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{512\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-88\,A-75\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{512\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(8\,A+15\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{192\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(88\,A+75\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{256\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{(-8\,A-15\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{192\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(-88\,A-75\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{256\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(24\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+19\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{128\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(24\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+19\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{128\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}(a+a\,\text{Sec}[c+d\,x])^{3/2}(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(14\,A+11\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(14\,A+11\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(6\,A+7\,B)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\,\text{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{i\,(-14\,A-11\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{i\,(-14\,A-11\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{\left(28\,A+14\,i\sqrt{2}\,A+22\,B+11\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{64\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-14\,A-11\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-14\,A-11\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{24\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(14\,A+11\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}-$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{24\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(-14\,A-11\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+3\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+3\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\right\}$$

$$\frac{a^2\,(12\,A+7\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(4\,A+5\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{i\,(-12\,A-7\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{16\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{i\,(-12\,A-7\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{16\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{\left(24\,A+12\,i\sqrt{2}\,A+14\,B+7\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-12\,A-7\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(-12\,A-7\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{(4\,A+7\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+\frac{(-4\,A-7\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}{16\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\,d\,\text{Sec}[c+d\,x]^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{\sqrt{2}\,a^2\,(2\,A+3\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(2\,A-B)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\sqrt{\text{Sec}[c+d\,x]}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{1}{16\,d\,\text{Sec}[c+d\,x]^{3/2}}\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2(a\,(1+\text{Sec}[c+d\,x]))^{3/2}$$

$$\Bigg(-2\,i\sqrt{2}\,(2\,A+3\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$2\,i\sqrt{2}\,(2\,A+3\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$\frac{2\left(2+i\sqrt{2}\right)(2\,A+3\,B)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]}{i+\sqrt{2}}-$$

$$\sqrt{2}\,(2\,A+3\,B)\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$\sqrt{2}\,(2\,A+3\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$\frac{8\,B}{1+\text{Cos}[c+d\,x]-\text{Sin}[c+d\,x]}-\frac{8\,B}{1+\text{Cos}[c+d\,x]+\text{Sin}[c+d\,x]}+16\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Sec}[c+d\,x]^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a^2\,B\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(4\,A+3\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{12\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\left(\frac{6\left(-i+\sqrt{2}\right)B\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,i+\sqrt{2}}+\right.$$

$$\frac{6\left(-i+\sqrt{2}\right)B\,\mathrm{ArcTan}\left[\frac{\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\mathrm{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,i+\sqrt{2}}+3\sqrt{2}\,B\,\mathrm{Log}\left[\sqrt{2}+2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]$$

$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]-\frac{3\,i\left(-i+\sqrt{2}\right)B\,\mathrm{Log}\left[4+2\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,i+\sqrt{2}}-$$

$$\frac{3\,i\left(-i+\sqrt{2}\right)B\,\mathrm{Log}\left[-2\left(-2+\sqrt{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,i+\sqrt{2}}+$$

$$\left.2\,A\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+6\,(3\,A+2\,B)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 7,\ 0\right\}$$

$$\frac{a^3\,(326\,A+283\,B)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{64\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(326\,A+283\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{128\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a^3\,(326\,A+283\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(170\,A+157\,B)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{240\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(10\,A+13\,B)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{40\,d}+\frac{a\,B\,\mathrm{Sec}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{i\,(-326\,A-283\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{i\,(-326\,A-283\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{\left(652\,A+326\,i\sqrt{2}\,A+566\,B+283\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{2048\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-326\,A-283\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{2048\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-326\,A-283\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{2048\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{160\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^5}+\frac{(46\,A+59\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{768\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+$$

$$\frac{(326\,A+283\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}-\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{160\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^5}+$$

$$\frac{(-46\,A-59\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{768\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(-326\,A-283\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+5\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{128\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+5\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{128\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(86\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+75\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(86\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+75\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}(a+a\,\text{Sec}[c+d\,x])^{5/2}(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\right\}$$

$$\frac{a^3\,(200\,A+163\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{32\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^3\,(200\,A+163\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{64\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(104\,A+95\,B)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{96\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(8\,A+11\,B)\,\text{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,d}+\frac{a\,B\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{i\,(-200\,A-163\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{i\,(-200\,A-163\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{\left(400\,A+200\,i\sqrt{2}\,A+326\,B+163\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-200\,A-163\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-200\,A-163\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{1024\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(8\,A+23\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{384\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(200\,A+163\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{(-8\,A-23\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{384\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(-200\,A-163\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{512\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(40\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+43\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{256\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(40\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+43\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{256\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\right\}$$

$$\frac{a^3\,(38\,A+25\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(54\,A+49\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(2\,A+3\,B)\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{a\,B\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{i\,(-38\,A-25\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{i\,(-38\,A-25\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{\left(76\,A+38\,i\sqrt{2}\,A+50\,B+25\,i\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{128\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-38\,A-25\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{128\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-38\,A-25\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{128\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{48\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(22\,A+25\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}-$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{48\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^3}+\frac{(-22\,A-25\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+5\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(2\,A\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+5\,B\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}(A+B\,\text{Sec}[c+d\,x])}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{a^3\,(20\,A+19\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(4\,A-9\,B)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(4\,A+7\,B)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{a\,B\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{i\,(-20\,A-19\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{i\,(-20\,A-19\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{32\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{\left(40\,A+20\,i\,\sqrt{2}\,A+38\,B+19\,i\,\sqrt{2}\,B\right)\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\left(i+\sqrt{2}\right)d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-20\,A-19\,B)\,\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(-20\,A-19\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{64\sqrt{2}\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{(4\,A+11\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+\frac{(-4\,A-11\,B)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}{32\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{A\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{2\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{16\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{16\,d\,\text{Sec}[c+d\,x]^{5/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{\sqrt{2}\,a^3\,(2\,A+5\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(14\,A+3\,B)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{a^2\,(2\,A-3\,B)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{96\, d\, \text{Sec}[c+d x]^{5/2}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 (a(1+\text{Sec}[c+d x]))^{5/2}$$

$$\Bigg(-6 i \sqrt{2}\,(2A+5B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]-$$

$$6 i \sqrt{2}\,(2A+5B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]+$$

$$\frac{6\left(2+i\sqrt{2}\right)(2A+5B)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{i+\sqrt{2}}-$$

$$3\sqrt{2}\,(2A+5B)\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]-3\sqrt{2}\,(2A+5B)$$

$$\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]+\frac{24B}{1+\text{Cos}[c+d x]-\text{Sin}[c+d x]}-$$

$$\frac{24B}{1+\text{Cos}[c+d x]+\text{Sin}[c+d x]}+8A\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]\text{Sin}\left[\frac{3}{2}(c+d x)\right]+24(5A+2B)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d x])^{5/2}(A+B\,\text{Sec}[c+d x])}{\text{Sec}[c+d x]^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a^3 B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}[c+d x]}}{d\sqrt{a+a\,\text{Sec}[c+d x]}}+\frac{2a^3(32A+35B)\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15\,d\sqrt{a+a\,\text{Sec}[c+d x]}}+$$

$$\frac{2a^2(8A+5B)\sqrt{a+a\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15\,d\sqrt{\text{Sec}[c+d x]}}+\frac{2aA(a+a\,\text{Sec}[c+d x])^{3/2}\,\text{Sin}[c+d x]}{5\,d\,\text{Sec}[c+d x]^{3/2}}$$

$$\frac{1}{120\,d\,\text{Sec}[c+d x]^{5/2}}$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^4(a(1+\text{Sec}[c+d x]))^{5/2}\Bigg(\frac{30\left(-i+\sqrt{2}\right)B\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(-1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{2i+\sqrt{2}}+$$

$$\frac{30\left(-i+\sqrt{2}\right)B\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\left(1+\sqrt{2}\right)\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\left(-1+\sqrt{2}\right)\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{2i+\sqrt{2}}+15\sqrt{2}\,B\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]-\frac{15i\left(-i+\sqrt{2}\right)B\,\text{Log}\left[4+2\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-2\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{2i+\sqrt{2}}-$$

$$\frac{15i\left(-i+\sqrt{2}\right)B\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{2i+\sqrt{2}}+$$

$$5(5A+2B)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]\text{Sin}\left[\frac{3}{2}(c+d x)\right]+3A\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]\text{Sin}\left[\frac{5}{2}(c+d x)\right]+150(A+B)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\,(A-B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(4\,A-7\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(4\,A-B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{B\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{i\,(4\,A-7\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{i\,(4\,A-7\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{2\,(-A+B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}-$$

$$\frac{2\,(-A+B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{\left(-8\,A-4\,i\,\sqrt{2}\,A+14\,B+7\,i\,\sqrt{2}\,B\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\sqrt{\text{Sec}[c+d\,x]}}{8\,\left(i+\sqrt{2}\right)\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{(4\,A-7\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Log}\left[2\,\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{8\,\sqrt{2}\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{(4\,A-7\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Log}\left[-2\,\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{8\,\sqrt{2}\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}+$$

$$\frac{(4\,A-B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{B\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{B\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{(-4\,A+B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,(A-B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\sqrt{2}\,(2\,A-B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{B\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(2\,i\,\sqrt{2}\,(-2\,A+B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+2\,i\,\sqrt{2}\,(-2\,A+B)\right.$$

$$\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+8\,(A-B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+$$

$$8\,(-A+B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+\frac{2\,\left(2+i\,\sqrt{2}\right)\,(2\,A-B)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{i+\sqrt{2}}+$$

$$\sqrt{2}\,(-2\,A+B)\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\sqrt{2}\,(-2\,A+B)\,\text{Log}\left[-2\,\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+$$

$$\left.\frac{4\,B}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-\frac{4\,B}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$\frac{2\,(A-B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{\left(2 i+\sqrt{2}\right) d \sqrt{a (1+\text{Sec}[c+d x])}} \text{Cos}\left[\frac{1}{2} (c+d x)\right] \left(2 \left(-i+\sqrt{2}\right) B \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(-1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right]+\right.$$
$$2 \left(-i+\sqrt{2}\right) B \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\left(1+\sqrt{2}\right) \text{Sin}\left[\frac{1}{4} (c+d x)\right]}{\left(-1+\sqrt{2}\right) \text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]}\right]-4 i A \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]-$$
$$2 \sqrt{2} A \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]+4 i B \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]+$$
$$2 \sqrt{2} B \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]-\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]+4 i A \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]+\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]+$$
$$2 \sqrt{2} A \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]+\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]-4 i B \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]+\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]-$$
$$2 \sqrt{2} B \text{Log}\left[\text{Cos}\left[\frac{1}{4} (c+d x)\right]+\text{Sin}\left[\frac{1}{4} (c+d x)\right]\right]+2 B \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$
$$2 i \sqrt{2} B \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-B \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-$$
$$i \sqrt{2} B \text{Log}\left[4+2 \sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]-2 \sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-$$
$$B \text{Log}\left[-2 \left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)\right]-$$
$$\left.i \sqrt{2} B \text{Log}\left[-2 \left(-2+\sqrt{2} \text{Cos}\left[\frac{1}{2} (c+d x)\right]+\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)\right]\right) \sqrt{\text{Sec}[c+d x]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{7/2} (A+B \text{Sec}[c+d x])}{(a+a \text{Sec}[c+d x])^{3/2}}, x, 8, 0\right\}$$
$$\frac{(9 A-13 B) \text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{2 a d \sqrt{a+a \text{Sec}[c+d x]}}-$$
$$\frac{(12 A-19 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{2 \sqrt{2} a d \sqrt{a+a \text{Sec}[c+d x]}}+$$
$$\frac{(A-B) \text{Sec}[c+d x]^{7/2} \text{Sin}[c+d x]}{2 d (a+a \text{Sec}[c+d x])^{3/2}}+\frac{(6 A-7 B) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{4 a d \sqrt{a+a \text{Sec}[c+d x]}}-\frac{(A-2 B) \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{2 a d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{i\,(12\,A-19\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{i\,(12\,A-19\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{(-9\,A+13\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{3/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{(9\,A-13\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{3/2}}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{\left(-24\,A-12\,i\sqrt{2}\,A+38\,B+19\,i\sqrt{2}\,B\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Sec}[c+d\,x]^{3/2}}{4\left(i+\sqrt{2}\right)d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{(12\,A-19\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{3/2}}{4\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{(12\,A-19\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)\right]\text{Sec}[c+d\,x]^{3/2}}{4\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}+$$

$$\frac{(A-B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}+$$

$$\frac{(-A+B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}+$$

$$\frac{(4\,A-5\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}+$$

$$\frac{B\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{B\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$

$$\frac{(-4\,A+5\,B)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]^{3/2}}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{(5A-9B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{2ad\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{\sqrt{2}\,(2A-3B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{ad\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{(A-B)\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{2d\,(a+a\,\text{Sec}[c+dx])^{3/2}}-\frac{(A-3B)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{2ad\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{i\sqrt{2}\,(-2A+3B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{-\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{i\sqrt{2}\,(-2A+3B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\text{Sin}\left[\frac{1}{4}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+dx)\right]}{\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]}\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{(5A-9B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]\right]\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{(-5A+9B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\text{Sin}\left[\frac{1}{4}(c+dx)\right]\right]\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{\left(4A+2i\sqrt{2}\,A-6B-3i\sqrt{2}\,B\right)\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Sec}[c+dx]^{3/2}}{\left(i+\sqrt{2}\right)d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{(-2A+3B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}[c+dx]^{3/2}}{\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{(-2A+3B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)\right]\text{Sec}[c+dx]^{3/2}}{\sqrt{2}\,d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}}+$$

$$\frac{(-A+B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{2d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+dx)\right]-\text{Sin}\left[\frac{1}{4}(c+dx)\right]\right)^2}+$$

$$\frac{(A-B)\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{2d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+dx)\right]+\text{Sin}\left[\frac{1}{4}(c+dx)\right]\right)^2}+$$

$$\frac{2B\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}-\frac{2B\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^3\text{Sec}[c+dx]^{3/2}}{d\,(a\,(1+\text{Sec}[c+dx]))^{3/2}\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{3/2}\,(A+B\,\text{Sec}[c+dx])}{(a+a\,\text{Sec}[c+dx])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(A-5B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{2ad\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{2\sqrt{2}\,B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{ad\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{(A-B)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{2d\,(a+a\,\text{Sec}[c+dx])^{3/2}}$$

$$\frac{4\left(-i B+\sqrt{2} B\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Sec}[c+d x]^{3/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}+$$

$$\frac{4\left(-i B+\sqrt{2} B\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Sec}[c+d x]^{3/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}+$$

$$\frac{(-A+5 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{3/2}}{d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}+$$

$$\frac{(A-5 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{3/2}}{d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}+$$

$$\frac{2\sqrt{2}\, B \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Sec}[c+d x]^{3/2}}{d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}-$$

$$\frac{2 i\left(-i B+\sqrt{2} B\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{3/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}-$$

$$\frac{2 i\left(-i B+\sqrt{2} B\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{3/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}}+$$

$$\frac{(A-B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Sec}[c+d x]^{3/2}}{2 d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2}+$$

$$\frac{(-A+B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^3 \text{Sec}[c+d x]^{3/2}}{2 d\,(a\,(1+\text{Sec}[c+d x]))^{3/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{7/2}\,(A+B \text{Sec}[c+d x])}{(a+a \text{Sec}[c+d x])^{5/2}}, x, 8, 0\right\}$$

$$-\frac{(43 A-115 B) \text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{16 a^2 d \sqrt{a+a \text{Sec}[c+d x]}}+$$

$$\frac{\sqrt{2}\,(2 A-5 B) \text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{(A-B) \text{Sec}[c+d x]^{7/2} \text{Sin}[c+d x]}{4 d\,(a+a \text{Sec}[c+d x])^{5/2}}+$$

$$\frac{(7 A-15 B) \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{16 a d\,(a+a \text{Sec}[c+d x])^{3/2}}-\frac{(11 A-35 B) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{16 a^2 d \sqrt{a+a \text{Sec}[c+d x]}}$$

$$\frac{2 i \sqrt{2} (-2 A+5 B) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{2 i \sqrt{2} (-2 A+5 B) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{(43 A-115 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{4 d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{(-43 A+115 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{4 d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{2 \left(4 A+2 i \sqrt{2} A-10 B-5 i \sqrt{2} B\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\sqrt{2}+2 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{\left(i+\sqrt{2}\right) d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{\sqrt{2} (-2 A+5 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[2 \left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{\sqrt{2} (-2 A+5 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[-2 \left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2}} +$$

$$\frac{(-A+B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^4} +$$

$$\frac{(-11 A+19 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2} +$$

$$\frac{(A-B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^4} +$$

$$\frac{(11 A-19 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2} +$$

$$\frac{4 B \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)} - \frac{4 B \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{d (a (1+\text{Sec}[c+d x]))^{5/2} \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{5/2} (A+B \text{Sec}[c+d x])}{(a+a \text{Sec}[c+d x])^{5/2}}, x, 7, 0\right\}$$

$$\frac{(3 A-43 B) \text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{16 a^2 d \sqrt{a+a \text{Sec}[c+d x]}} +$$

$$\frac{2 \sqrt{2} B \text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d \sqrt{a+a \text{Sec}[c+d x]}} +$$

$$\frac{(A-B) \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{4 d (a+a \text{Sec}[c+d x])^{5/2}} + \frac{(3 A-11 B) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{16 a d (a+a \text{Sec}[c+d x])^{3/2}}$$

$$\frac{8\left(-i B+\sqrt{2} B\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{-\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}+$$

$$\frac{8\left(-i B+\sqrt{2} B\right) \text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{4}(c+d x)\right]}{\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\sqrt{2}\,\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]}\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}+$$

$$\frac{(-3 A+43 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{4 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}+$$

$$\frac{(3 A-43 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{4 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}+$$

$$\frac{4\sqrt{2}\, B \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Sec}[c+d x]^{5/2}}{d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}-$$

$$\frac{4 i\left(-i B+\sqrt{2} B\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[2\left(2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{5/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}-$$

$$\frac{4 i\left(-i B+\sqrt{2} B\right) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right] \text{Sec}[c+d x]^{5/2}}{\left(2 i+\sqrt{2}\right) d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}}+$$

$$\frac{(A-B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^4}+$$

$$\frac{(3 A-11 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]-\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2}+$$

$$\frac{(-A+B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^4}+$$

$$\frac{(-3 A+11 B) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \text{Sec}[c+d x]^{5/2}}{8 d\,(a\,(1+\text{Sec}[c+d x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}(c+d x)\right]+\text{Sin}\left[\frac{1}{4}(c+d x)\right]\right)^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]}{\text{Sec}[c+d x]^{3/2}\,(a+a\,\text{Sec}[c+d x])^{5/2}}, x, 6, 0\right\}$$

$$\frac{(163 A-75 B) \text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right] \text{Cos}\left[\frac{1}{2}(c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{16 a^2 d \sqrt{a+a\,\text{Sec}[c+d x]}}-$$

$$\frac{(A-B) \text{Sin}[c+d x]}{4 d \sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^{5/2}}-\frac{(17 A-9 B) \text{Sin}[c+d x]}{16 a d \sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])^{3/2}}+$$

$$\frac{(95 A-39 B) \text{Sin}[c+d x]}{48 a^2 d \sqrt{\text{Sec}[c+d x]}\,\sqrt{a+a\,\text{Sec}[c+d x]}}-\frac{(299 A-147 B) \sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{48 a^2 d \sqrt{a+a\,\text{Sec}[c+d x]}}$$

$$\frac{(-163\,A+75\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]\,\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{(163\,A-75\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]\,\text{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{(A-B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^4}+$$

$$\frac{(-29\,A+21\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{(-A+B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^4}+$$

$$\frac{(29\,A-21\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{8\,(-5\,A+2\,B)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}+\frac{8\,A\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]}{3\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{(283\,A-163\,B)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(A-B)\,\text{Sin}[c+d\,x]}{4\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{(21\,A-13\,B)\,\text{Sin}[c+d\,x]}{16\,a\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(157\,A-85\,B)\,\text{Sin}[c+d\,x]}{80\,a^2\,d\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(787\,A-475\,B)\,\text{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(2671\,A-1495\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{(283\,A-163\,B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\mathrm{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{(-283\,A+163\,B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right]\mathrm{Sec}[c+d\,x]^{5/2}}{4\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{(-A+B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}+$$

$$\frac{(37\,A-29\,B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}+$$

$$\frac{(A-B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^4}+$$

$$\frac{(-37\,A+29\,B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}}{8\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(\mathrm{Cos}\left[\frac{1}{4}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{4}(c+d\,x)\right]\right)^2}-$$

$$\frac{40\,(-2\,A+B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]}{d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}+$$

$$\frac{4\,(-5\,A+2\,B)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}\left[\frac{3}{2}(c+d\,x)\right]}{3\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}+\frac{4\,A\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}\left[\frac{5}{2}(c+d\,x)\right]}{5\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^2\,(8\,A+9\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{15\,d}+\frac{4\,a^2\,(5\,A+6\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{21\,d}+$$

$$\frac{4\,a^2\,(5\,A+6\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{4\,a^2\,(8\,A+9\,B)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{45\,d}+$$

$$\frac{2\,a^2\,(11\,A+9\,B)\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{63\,d}+\frac{2\,a\,A\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}$$

$$\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{(8\,A+9\,B)\,\mathrm{Cot}[c]}{15\,d}+\frac{(46\,A+51\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{168\,d}+\frac{(37\,A+36\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{360\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{56\,d}+\frac{A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{144\,d}+\frac{(46\,A+51\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{168\,d}+\frac{(37\,A+36\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{360\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{56\,d}+\frac{A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{144\,d}\right)-$$

$$\frac{1}{21\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,5\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{7\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{15\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,4\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\,\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,3\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\,\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\frac{4\,a^2\,(3\,A+4\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^2\,(6\,A+7\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{4\,a^2\,(6\,A+7\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a^2\,(9\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{(3\,A+4\,B)\,\mathrm{Cot}[c]}{5\,d}+\frac{(51\,A+56\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{168\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{20\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{56\,d}+\frac{(51\,A+56\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{168\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{20\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{56\,d}\right)-$$

$$\frac{1}{7\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{10\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,3\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\right\}$$

$$\frac{4\,a^2\,(4\,A+5\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^2\,(A+2\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+\frac{2\,a^2\,(7\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{(4\,A+5\,B)\,\mathrm{Cot}[c]}{5\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{6\,d}+\frac{A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{20\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{6\,d}+\frac{A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{20\,d}\right)-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}2\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 5,\ 0\right\}$$

$$\frac{4 a^2 A \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{d}+\frac{4 a^2 (2 A+3 B) \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{3 d}-$$

$$\frac{2 a^2 (A-3 B) \text{Sin}[c+d x]}{3 d \sqrt{\text{Cos}[c+d x]}}+\frac{2 a A \sqrt{\text{Cos}[c+d x]}\,(a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{3 d}$$

$$\frac{1}{B+A \text{Cos}[c+d x]} \text{Cos}[c+d x]^{7/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a \text{Sec}[c+d x])^2 (A+B \text{Sec}[c+d x])$$

$$\left(-\frac{(2 A-B+2 A \text{Cos}[2 c]+B \text{Cos}[2 c]) \text{Csc}[2 c]}{2 d}+\frac{A \text{Cos}[d x] \text{Sin}[c]}{6 d}+\frac{A \text{Cos}[c] \text{Sin}[d x]}{6 d}+\frac{B \text{Sec}[c] \text{Sec}[c+d x] \text{Sin}[d x]}{2 d}\right)-$$

$$\frac{1}{3 d (B+A \text{Cos}[c+d x]) \sqrt{1+\text{Cot}[c]^2}} 2 A \text{Cos}[c+d x]^3 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a \text{Sec}[c+d x])^2 (A+B \text{Sec}[c+d x]) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d (B+A \text{Cos}[c+d x]) \sqrt{1+\text{Cot}[c]^2}} B \text{Cos}[c+d x]^3 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a \text{Sec}[c+d x])^2 (A+B \text{Sec}[c+d x]) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{2 d (B+A \text{Cos}[c+d x])} A \text{Cos}[c+d x]^3 \text{Csc}[c] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 (a+a \text{Sec}[c+d x])^2 (A+B \text{Sec}[c+d x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]^2\right] \text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]] \text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c] \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]] \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2 \text{Cos}[c]^2 \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c] \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d x]}\,(a+a \text{Sec}[c+d x])^2 (A+B \text{Sec}[c+d x]), x, 5, 0\right\}$$

$$-\frac{4 a^2 B \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{d}+\frac{4 a^2 (3 A+2 B) \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{3 d}+$$

$$\frac{2 a^2 (3 A+5 B) \text{Sin}[c+d x]}{3 d \sqrt{\text{Cos}[c+d x]}}+\frac{2 a B (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{3 d \sqrt{\text{Cos}[c+d x]}}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{(-A-4\,B+A\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{2\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{6\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(B\,\mathrm{Sin}[c]+3\,A\,\mathrm{Sin}[d\,x]+6\,B\,\mathrm{Sin}[d\,x])}{6\,d}\right)-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$-\frac{4\,a^2\,(5\,A+4\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,(2\,A+B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{2\,a^2\,(5\,A+7\,B)\,\mathrm{Sin}[c+d\,x]}{15\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(5\,A+4\,B)\,\mathrm{Sin}[c+d\,x]}{5\,d\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,a\,B\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{2\,(5\,A+4\,B)\,\mathrm{Csc}[2\,c]}{5\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}[d\,x]}{10\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,B\,\mathrm{Sin}[c]+5\,A\,\mathrm{Sin}[d\,x]+10\,B\,\mathrm{Sin}[d\,x])}{30\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,A\,\mathrm{Sin}[c]+10\,B\,\mathrm{Sin}[c]+30\,A\,\mathrm{Sin}[d\,x]+24\,B\,\mathrm{Sin}[d\,x])}{30\,d}\right)-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Cos}[c+d\,x]^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{4\,a^2\,(4\,A+3\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^2\,(7\,A+6\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{2\,a^2\,(7\,A+9\,B)\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{4\,a^2\,(7\,A+6\,B)\,\mathrm{Sin}[c+d\,x]}{21\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(4\,A+3\,B)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,a\,B\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{2\,(4\,A+3\,B)\,\mathrm{Csc}[2\,c]}{5\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{14\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(5\,B\,\mathrm{Sin}[c]+7\,A\,\mathrm{Sin}[d\,x]+14\,B\,\mathrm{Sin}[d\,x])}{70\,d}+\right.$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(21\,A\,\mathrm{Sin}[c]+42\,B\,\mathrm{Sin}[c]+70\,A\,\mathrm{Sin}[d\,x]+60\,B\,\mathrm{Sin}[d\,x])}{210\,d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(35\,A\,\mathrm{Sin}[c]+30\,B\,\mathrm{Sin}[c]+84\,A\,\mathrm{Sin}[d\,x]+63\,B\,\mathrm{Sin}[d\,x])}{105\,d}\right)-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{7\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,2\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{10\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,3\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 8,\ 0\}$$

$$\frac{4\,a^3\,(15\,A+17\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{15\,d}+$$

$$\frac{4\,a^3\,(105\,A+121\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{231\,d}+\frac{4\,a^3\,(105\,A+121\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{4\,a^3\,(15\,A+17\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+\frac{20\,a^3\,(21\,A+22\,B)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{693\,d}+$$

$$\frac{2\,a^2\,(15\,A+11\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{B+A\,\text{Cos}[c+d\,x]}\,\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$(A+B\,\text{Sec}[c+d\,x])\left(-\frac{(15\,A+17\,B)\,\text{Cot}[c]}{30\,d}+\frac{(1953\,A+2134\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{7392\,d}+\right.$$

$$\frac{(75\,A+73\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{720\,d}+\frac{3\,(63\,A+44\,B)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{4928\,d}+\frac{(3\,A+B)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{288\,d}+$$

$$\frac{A\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{704\,d}+\frac{(1953\,A+2134\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{7392\,d}+\frac{(75\,A+73\,B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{720\,d}+$$

$$\left.\frac{3\,(63\,A+44\,B)\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{4928\,d}+\frac{(3\,A+B)\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{288\,d}+\frac{A\,\text{Cos}[5\,c]\,\text{Sin}[5\,d\,x]}{704\,d}\right)-$$

$$\frac{1}{22\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,5\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{42\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,11\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{4\,d\,(B+A\,\text{Cos}[c+d\,x])}\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{60\,d\,(B+A\,\text{Cos}[c+d\,x])}\,17\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,7,\,0\}$$

$$\frac{4\,a^3\,(17\,A+21\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^3\,(11\,A+13\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{4\,a^3\,(11\,A+13\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{4\,a^3\,(23\,A+24\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{2\,a^2\,(13\,A+9\,B)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{(17\,A+21\,B)\,\mathrm{Cot}[c]}{30\,d}+\frac{(97\,A+107\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{336\,d}+\frac{(73\,A+54\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{720\,d}+\frac{(3\,A+B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{112\,d}+\right.$$

$$\left.\frac{A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{288\,d}+\frac{(97\,A+107\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{336\,d}+\frac{(73\,A+54\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{720\,d}+\right.$$

$$\left.\frac{(3\,A+B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{112\,d}+\frac{A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{288\,d}\right)-\frac{1}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$11\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,13\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{60\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,17\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,7\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\frac{4\,a^3\,(7\,A+9\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(13\,A+21\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{4\,a^3\,(41\,A+42\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{2\,a^2\,(11\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{(7\,A+9\,B)\,\mathrm{Cot}[c]}{10\,d}+\frac{(107\,A+84\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{336\,d}+\frac{(3\,A+B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{40\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{112\,d}+\right.$$

$$\left.\frac{(107\,A+84\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{336\,d}+\frac{(3\,A+B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{40\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{112\,d}\right)-$$

$$\frac{1}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,13\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\right.$$

$$\left.\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,7\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,9\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\}$$

$$\frac{4\,a^3\,(9\,A+5\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(3\,A+5\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}-\frac{4\,a^3\,(6\,A-5\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(9\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{(18\,A+5\,B+18\,A\,\mathrm{Cos}[2\,c]+15\,B\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{20\,d}+\frac{(3\,A+B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{12\,d}+\right.$$

$$\left.\frac{A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{40\,d}+\frac{(3\,A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{12\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{4\,d}+\frac{A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{40\,d}\right)-$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{6\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}5\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}9\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\right\}$$

$$\frac{4\,a^3\,(A-B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{d}+\frac{20\,a^3\,(A+B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+\frac{4\,a^3\,(A+4\,B)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{2\,a^2\,(A-B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{(A-5\,B+3\,A\,\mathrm{Cos}[2\,c]+B\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{4\,d}+\frac{A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{12\,d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{12\,d}+\right.$$

$$\left.\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{12\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(B\,\mathrm{Sin}[c]+3\,A\,\mathrm{Sin}[d\,x]+9\,B\,\mathrm{Sin}[d\,x])}{12\,d}\right)-$$

$$\frac{1}{6\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}5\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{6\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}5\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\;(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 6,\ 0\right\}$$

$$-\frac{4\,a^3\,(5\,A+9\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(5\,A+3\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+$$

$$\frac{4\,a^3\,(20\,A+21\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(5\,A+9\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a\,B\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{(-25\,A-36\,B+5\,A\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{20\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}[d\,x]}{20\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,B\,\mathrm{Sin}[c]+5\,A\,\mathrm{Sin}[d\,x]+15\,B\,\mathrm{Sin}[d\,x])}{60\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,A\,\mathrm{Sin}[c]+15\,B\,\mathrm{Sin}[c]+45\,A\,\mathrm{Sin}[d\,x]+54\,B\,\mathrm{Sin}[d\,x])}{60\,d}\right)-$$

$$\frac{1}{6\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,5\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\,\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,9\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\,\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Cos}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{4\,a^3\,(9\,A+7\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(21\,A+13\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{4\,a^3\,(42\,A+41\,B)\,\mathrm{Sin}[c+d\,x]}{105\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{4\,a^3\,(9\,A+7\,B)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^2\,(7\,A+11\,B)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{2\,a\,B\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{B+A\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{(9\,A+7\,B)\,\mathrm{Csc}[2\,c]}{5\,d}+\frac{B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{28\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(5\,B\,\mathrm{Sin}[c]+7\,A\,\mathrm{Sin}[d\,x]+21\,B\,\mathrm{Sin}[d\,x])}{140\,d}+\right.$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(21\,A\,\mathrm{Sin}[c]+63\,B\,\mathrm{Sin}[c]+105\,A\,\mathrm{Sin}[d\,x]+130\,B\,\mathrm{Sin}[d\,x])}{420\,d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(105\,A\,\mathrm{Sin}[c]+130\,B\,\mathrm{Sin}[c]+378\,A\,\mathrm{Sin}[d\,x]+294\,B\,\mathrm{Sin}[d\,x])}{420\,d}\right)-$$

$$\frac{1}{2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{42\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,13\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}+$$

$$\frac{1}{20\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,9\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{20\,d\,(B+A\,\text{Cos}[c+d\,x])}\,7\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\Bigg(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Bigg)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,8,\,0\right\}$$

$$-\frac{4\,a^3\,(21\,A+17\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^3\,(13\,A+11\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{4\,a^3\,(24\,A+23\,B)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^3\,(13\,A+11\,B)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^3\,(21\,A+17\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(9\,A+13\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,a\,B\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{B+A\,\text{Cos}[c+d\,x]}\,\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\frac{(21\,A+17\,B)\,\text{Csc}[2\,c]}{15\,d}+\frac{B\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,\text{Sin}[d\,x]}{36\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(7\,B\,\text{Sin}[c]+9\,A\,\text{Sin}[d\,x]+27\,B\,\text{Sin}[d\,x])}{252\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(65\,A\,\text{Sin}[c]+55\,B\,\text{Sin}[c]+147\,A\,\text{Sin}[d\,x]+119\,B\,\text{Sin}[d\,x])}{210\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(45\,A\,\text{Sin}[c]+135\,B\,\text{Sin}[c]+189\,A\,\text{Sin}[d\,x]+238\,B\,\text{Sin}[d\,x])}{1260\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(189\,A\,\text{Sin}[c]+238\,B\,\text{Sin}[c]+390\,A\,\text{Sin}[d\,x]+330\,B\,\text{Sin}[d\,x])}{1260\,d}\Bigg)-$$

$$\frac{1}{42\,d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{1+\text{Cot}[c]^2}}\,13\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},$$

$$\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{42\,d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{1+\text{Cot}[c]^2}}\,11\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6$$

$$(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,+$$

$$\frac{1}{20\,d\,(B+A\,\text{Cos}[c+d\,x])}\,7\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{60\,d\,(B+A\,\text{Cos}[c+d\,x])}\,17\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\frac{\text{Cos}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{a+a\,\text{Sec}[c+d\,x]},\,x,\,6,\,0\Big\}$$

$$\frac{3\,(7\,A-5\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}-\frac{5\,(A-B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}-$$

$$\frac{5\,(A-B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}+\frac{(7\,A-5\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\sqrt{\text{Cos}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])\right.$$

$$\left(\frac{2\,(-5\,A+5\,B-16\,A\,\text{Cos}[c]+10\,B\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{4\,(-A+B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\right.$$

$$\left.\left.\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{4\,(-A+B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)\right)\Big/$$

$$((B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$10\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])}\,10\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,21\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,3\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{a+a\,\text{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$-\frac{3\,(A-B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{(5\,A-3\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+$$

$$\frac{(5\,A-3\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}-\frac{(A-B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \sqrt{\cos[c+d x]}\,(A+B\sec[c+d x])\left(-\frac{2(-A+B)(1+2\cos[c])\csc[c]}{d}+\frac{4 A\cos[d x]\sin[c]}{3 d}-\frac{2\sec\left[\frac{c}{2}\right]\sec\left[\frac{c}{2}+\frac{d x}{2}\right]\left(-A\sin\left[\frac{d x}{2}\right]+B\sin\left[\frac{d x}{2}\right]\right)}{d}+\frac{4 A\cos[c]\sin[d x]}{3 d}\right)\right)\Big/$$

$$((B+A\cos[c+d x])(a+a\sec[c+d x]))-\frac{1}{3 d(B+A\cos[c+d x])\sqrt{1+\cot[c]^2}\,(a+a\sec[c+d x])}$$

$$10 A\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right]$$

$$(A+B\sec[c+d x])\sec[d x-\text{ArcTan}[\cot[c]]]\sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]}$$

$$\sqrt{-\sqrt{1+\cot[c]^2}\,\sin[c]\sin[d x-\text{ArcTan}[\cot[c]]]}\,\sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}+$$

$$\frac{1}{d(B+A\cos[c+d x])\sqrt{1+\cot[c]^2}\,(a+a\sec[c+d x])}2 B\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right](A+B\sec[c+d x])\sec[d x-\text{ArcTan}[\cot[c]]]$$

$$\sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]}\,\sqrt{-\sqrt{1+\cot[c]^2}\,\sin[c]\sin[d x-\text{ArcTan}[\cot[c]]]}\,\sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}+$$

$$\frac{1}{d(B+A\cos[c+d x])(a+a\sec[c+d x])}3 A\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c](A+B\sec[c+d x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right]\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]}\,\sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]}\,\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)-$$

$$\frac{1}{d(B+A\cos[c+d x])(a+a\sec[c+d x])}3 B\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c](A+B\sec[c+d x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right]\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]}\,\sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]}\,\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])}{a+a\,\text{Sec}[c+d\,x]},\ x,\ 4,\ 0\right\}$$

$$\frac{(3\,A-B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}-\frac{(A-B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}-\frac{(A-B)\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \sqrt{\text{Cos}[c+d\,x]}\ (A+B\,\text{Sec}[c+d\,x])\left(-\frac{2\,(A-B+2\,A\,\text{Cos}[c])\,\text{Csc}[c]}{d}+\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}\right)}{(B+A\,\text{Cos}[c+d\,x])\ (a+a\,\text{Sec}[c+d\,x])}+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])}\,2\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])}\,2\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\ (a+a\,\text{Sec}[c+d\,x])}\,3\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\ (A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\ (a+a\,\text{Sec}[c+d\,x])}\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\ (A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}\ (a+a\,\text{Sec}[c+d\,x])},\ x,\ 4,\ 0\right\}$$

$$-\frac{(A-B)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+\frac{(A+B)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}\,(B+A\,\text{Cos}[c+d\,x])\sqrt{\text{Csc}[c]^2}\,(1+\text{Sec}[c+d\,x])}\,e^{-i\,d\,x}\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2(A+B\,\text{Sec}[c+d\,x])$$

$$\left(-6\,(A+B)\,e^{i\,d\,x}\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}\sqrt{\text{Cos}[c+d\,x]}\sqrt{\text{Cos}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2}\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\right.\right.$$

$$\left.\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]+\frac{1}{\left(-1+e^{2\,i\,c}\right)\left(1+e^{i\,(c+d\,x)}\right)}\,2\,i\sqrt{2}\,(A-B)\,e^{-\frac{3\,i\,c}{2}}\sqrt{\text{Csc}[c]^2}$$

$$\left(3\left(e^{i\,c}+e^{i\,d\,x}+e^{3\,i\,c+2\,i\,d\,x}+e^{2\,i\,c+3\,i\,d\,x}\right)-3\,e^{i\,c}\left(1+e^{i\,(c+d\,x)}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]-\right.$$

$$\left.\left.e^{i\,(c+2\,d\,x)}\left(1+e^{i\,(c+d\,x)}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\left(\text{Cos}\left[\frac{3\,c}{2}\right]+i\,\text{Sin}\left[\frac{3\,c}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,5,\,0\right\}$$

$$\frac{(A-3\,B)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+\frac{(A-B)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}-$$

$$\frac{(A-3\,B)\,\text{Sin}[c+d\,x]}{a\,d\sqrt{\text{Cos}[c+d\,x]}}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \sqrt{\cos[c+d x]}\,(A+B\sec[c+d x])\left(\frac{2(-A+3B)}{d(-\sin[c]+\sin[2c])}-\frac{2\sec\left[\frac{3c}{2}\right]\left(A\sin\left[\frac{3dx}{2}\right]-3B\sin\left[\frac{3dx}{2}\right]+2B\sin\left[c-\frac{dx}{2}\right]-A\sin\left[2c+\frac{dx}{2}\right]+B\sin\left[2c+\frac{dx}{2}\right]\right)}{d\left(\cos\left[\frac{c}{2}+\frac{dx}{2}\right]+\cos\left[\frac{3c}{2}+\frac{3dx}{2}\right]\right)}\right)}{(B+A\cos[c+d x])\,(a+a\sec[c+d x])}-$$

$$\frac{1}{d\,(B+A\cos[c+d x])\sqrt{1+\cot[c]^2}\,(a+a\sec[c+d x])}\,2A\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right](A+B\sec[c+d x])\sec[d x-\text{ArcTan}[\cot[c]]]$$

$$\sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]}\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[d x-\text{ArcTan}[\cot[c]]]}\sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}+$$

$$\frac{1}{d\,(B+A\cos[c+d x])\sqrt{1+\cot[c]^2}\,(a+a\sec[c+d x])}\,2B\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right](A+B\sec[c+d x])\sec[d x-\text{ArcTan}[\cot[c]]]$$

$$\sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]}\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[d x-\text{ArcTan}[\cot[c]]]}\sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}-$$

$$\frac{1}{d\,(B+A\cos[c+d x])\,(a+a\sec[c+d x])}\,A\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]\,(A+B\sec[c+d x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right]\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]}\sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]}\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)+$$

$$\frac{1}{d\,(B+A\cos[c+d x])\,(a+a\sec[c+d x])}\,3B\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2\csc[c]\,(A+B\sec[c+d x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right]\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]}\sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]}\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[d x+\text{ArcTan}[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\sec[c+d x]}{\cos[c+d x]^{5/2}\,(a+a\sec[c+d x])},\ x,\ 6,\ 0\right\}$$

$$-\frac{3\,(A-B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}-\frac{(3\,A-5\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}-$$

$$\frac{(3\,A-5\,B)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{3\,(A-B)\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\sqrt{\text{Cos}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])\right.$$

$$\left(-\frac{(-A+B)\,(2+\text{Cos}[c])\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\right.$$

$$\left.\left.\frac{4\,B\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(B\,\text{Sin}[c]+3\,A\,\text{Sin}[d\,x]-3\,B\,\text{Sin}[d\,x])}{3\,d}\right)\right)\Big/$$

$$((B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$2\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])}\,10\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,3\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Csc}[c]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,3\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Csc}[c]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\Bigg(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$\frac{7\,(8\,A-5\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^2\,d}-\frac{5\,(3\,A-2\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-\frac{5\,(3\,A-2\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}+$$

$$\frac{7\,(8\,A-5\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a^2\,d}-\frac{(A-B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(3\,A-2\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$20\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]$$

$$\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}\,40\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\frac{4\,(-20\,A+15\,B-36\,A\,\text{Cos}[c]+20\,B\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{8\,(-2\,A+B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}-\right.$$

$$\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-4\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+3\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+$$

$$\left.\frac{8\,(-2\,A+B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}-\frac{2\,(-A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,112\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,14\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{(7A-4B)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{a^2 d}+\frac{5(2A-B)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3a^2 d}+\frac{5(2A-B)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3a^2 d}-\frac{(A-B)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3d(a+a\,\text{Sec}[c+dx])^2}-\frac{(7A-4B)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3ad(a+a\,\text{Sec}[c+dx])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,40\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,20\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{1}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{4\,(-3\,A+2\,B-4\,A\,\mathrm{Cos}[c]+2\,B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}+\frac{8\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\right.$$

$$\left.\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-3\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{8\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,14\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 5,\ 0\right\}$$

$$\frac{(4\,A-B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^2\,d}-\frac{(5\,A-2\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^2\,d}-$$

$$\frac{(A-B)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(5\,A-2\,B)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$20\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ -$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}\,8\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ +$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(A+B\,\text{Sec}[c+d\,x])\left(-\frac{4\,(2\,A-B+2\,A\,\text{Cos}[c])\,\text{Csc}[c]}{d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(-2\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-\right.\right.$$

$$\left.\left.\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\frac{2\,(-A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)-\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$8\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)+$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,2\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$-\frac{A\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(2\,A+B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{(A-B)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(2\,A+B)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{4\,A\,\mathrm{Csc}[c]}{d}+\frac{4\,A\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,2\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$\frac{B\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(A+2\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{B\,\mathrm{Sin}[c+d\,x]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{4\,B\,\mathrm{Csc}[c]}{d}-\frac{4\,B\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$-\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,2\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$\frac{(A-4\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(2\,A-5\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(A-4\,B)\,\mathrm{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(2\,A-5\,B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,20\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{4\,(-A+4\,B)}{d\,(-\mathrm{Sin}[c]+\mathrm{Sin}[2\,c])}+\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\right.\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-4\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\left.\left.\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/\left(\sqrt{\mathrm{Cos}[c+d\,x]}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,2\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$-\frac{(4\,A-7\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}-\frac{5\,(A-2\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-\frac{5\,(A-2\,B)\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{(4\,A-7\,B)\,\text{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(4\,A-7\,B)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}\,20\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2}\,40\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\frac{2\,(4\,B+12\,A\,\mathrm{Cos}[c]-27\,B\,\mathrm{Cos}[c]+2\,B\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{3\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\frac{8\,B\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\right.$$

$$\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{8\,B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+$$

$$\left(4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(2\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+12\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-21\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-5\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+9\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-2\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-5\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+10\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/\left(3\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+$$

$$\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]+B\,\mathrm{Sin}\left[\frac{c}{2}\right]-A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+3\,B\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+2\,B\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-2\,B\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{3\,d}-$$

$$\left.\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,14\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{7\,(33\,A-17\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(21\,A-11\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}-$$

$$\frac{(21\,A-11\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a^3\,d}+\frac{7\,(33\,A-17\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{30\,a^3\,d}-$$

$$\frac{(A-B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(12\,A-7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{3\,(21\,A-11\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$84\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}\,44\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;+$$

$$\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\frac{4\,(-99\,A+59\,B-132\,A\,\text{Cos}[c]+60\,B\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{16\,(-3\,A+B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{8\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\right.$$

$$\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-24\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+19\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-99\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+59\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{16\,(-3\,A+B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+$$

$$\left.\frac{8\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}-\frac{4\,(-24\,A+19\,B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,(-A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,462\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,238\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{7\,(17\,A-7\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(33\,A-13\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+\frac{(33\,A-13\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^3\,d}-\frac{(A-B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(2\,A-B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{7\,(17\,A-7\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{30\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$44\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,52\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{4\,(-59\,A+29\,B-60\,A\,\mathrm{Cos}[c]+20\,B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}+\right.$$

$$\frac{16\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-19\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+14\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-59\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+29\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\left.\frac{16\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{4\,(-19\,A+14\,B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,238\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,98\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{(49\,A-9\,B)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(13\,A-3\,B)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A-B)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(8\,A-3\,B)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(13\,A-3\,B)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}\,52\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}\,4\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(A+B\,\text{Sec}[c+d\,x])$$

$$\left(-\frac{4\,(29\,A-9\,B+20\,A\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-29\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+9\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-14\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+9\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$

$$\left.\frac{4\,(-14\,A+9\,B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,(-A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,98\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,18\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{(9\,A+B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(3\,A+B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(3\,A+2\,B)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(3\,A+B)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{4\,(9\,A+B)\,\mathrm{Csc}[c]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(9\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-9\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\left.\frac{4\,(-9\,A+4\,B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,18\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,2\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{(A-B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A+B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(A+4\,B)\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(A+B)\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{4\,(-A+B)\,\text{Csc}[c]}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\left.\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(4\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{4\,(4\,A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,(-A+B)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,2\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,2\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{(A+9\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A+3\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(A-6\,B)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(A+9\,B)\,\text{Sin}[c+d\,x]}{10\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{4\,(A+9\,B)\,\mathrm{Csc}[c]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+6\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-\right.$$

$$\left.\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+9\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{4\,(-A+6\,B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,2\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,18\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$\frac{(9\,A-49\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(3\,A-13\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(9\,A-49\,B)\,\text{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{(A-B)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(3\,A-8\,B)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(3\,A-13\,B)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}\,4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{3\,d\,(B+A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3}\,52\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\text{Sec}[c+d\,x])\left(\frac{4\,(-9\,A+49\,B)}{5\,d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}+\right.$$

$$\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-6\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+11\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(9\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-49\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+20\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-9\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+29\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{5\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\left.\frac{4\,(-6\,A+11\,B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}18\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}98\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$-\frac{7\,(7\,A-17\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(13\,A-33\,B)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-$$

$$\frac{(13\,A-33\,B)\,\mathrm{Sin}[c+d\,x]}{6\,a^3\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{7\,(7\,A-17\,B)\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{(A-B)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{(A-2\,B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{7\,(7\,A-17\,B)\,\mathrm{Sin}[c+d\,x]}{30\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$52\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,44\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{2\,(40\,B+147\,A\,\mathrm{Cos}[c]-417\,B\,\mathrm{Cos}[c]+20\,B\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]}{15\,d\,\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\frac{16\,B\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\right.$$

$$\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(-11\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+16\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{16\,B\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\left(4\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\,\left(44\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-64\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+147\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-\right.\right.$$

$$357\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-38\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+128\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-44\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+64\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$\left.\left.65\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+165\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/\left(15\,d\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\left(11\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]-6\,B\,\mathrm{Sin}\left[\frac{c}{2}\right]-11\,A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+26\,B\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+10\,B\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-10\,B\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{15\,d}$$

$$\left.-\frac{4\,(-11\,A+16\,B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{2\,(-A+B)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)+$$

$$\frac{1}{5\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}\,98\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,238\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,3,\,0\right\}$$

$$\frac{2\sqrt{2}\,a\,B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\,\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$-\left(2\,i\,\text{Cos}[c+d\,x]^{3/2}\left(3\,A\left(-1+e^{i(c+d\,x)}\right)+6\,B\,e^{i(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+2\,B\,e^{2\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,(A+B\,\text{Sec}[c+d\,x])\right)\Big/\left(3\,d\left(1+e^{i(c+d\,x)}\right)(B+A\,\text{Cos}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,3,\,0\right\}$$

$$\frac{\sqrt{2}\,a\,(2\,A+B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d}(2\,A+B)\sqrt{\text{Cos}[c+d\,x]}$$

$$\left(-2\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]-\frac{2}{3}\,i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}+\frac{B\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]\right)}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{a\,(4\,A+3\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,B\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(4\,A+3\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{12\,d}\sqrt{\text{Cos}[c+d\,x]}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-3\,i\,(4\,A+3\,B)\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\,1,\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.i\,(4\,A+3\,B)\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},\,1,\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]+3\,\text{Sec}[c+d\,x]\,(4\,A+3\,B+2\,B\,\text{Sec}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]\right)}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{a\,(6\,A+5\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,B\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(6\,A+5\,B)\,\text{Sin}[c+d\,x]}{12\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(6\,A+5\,B)\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{24\,d}\sqrt{\text{Cos}[c+d\,x]}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(-3\,i\,(6\,A+5\,B)\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\,1,\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$i\,(6\,A+5\,B)\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},\,1,\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$\left.\text{Sec}[c+d\,x]\,\left(3\,(6\,A+5\,B)+2\,(6\,A+5\,B)\,\text{Sec}[c+d\,x]+8\,B\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\right\}$$

$$\frac{2\,\sqrt{2}\,a^2\,B\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(4\,A+3\,B)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d}\text{Cos}[c+d\,x]^{3/2}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\,\left(-3\,i\,B\,e^{\frac{1}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\,1,\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.i\,B\,e^{\frac{3}{2}\,i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},\,1,\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]+(5\,A+3\,B+A\,\text{Cos}[c+d\,x])\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\right\}$$

$$\frac{\sqrt{2}\, a^2 (2A+3B)\, \text{ArcTanh}\left[\sqrt{2}\, \text{Sin}\left[\frac{1}{2}(c+dx)\right]\right] \text{Cos}\left[\frac{1}{2}(c+dx)\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a^2(2A-B)\,\text{Sin}[c+dx]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a B\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{d\sqrt{\text{Cos}[c+dx]}}$$

$$\frac{1}{6d(B+A\,\text{Cos}[c+dx])}\text{Cos}[c+dx]^{5/2}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3 (a(1+\text{Sec}[c+dx]))^{3/2}$$

$$(A+B\,\text{Sec}[c+dx])\left(-3i(2A+3B)e^{\frac{1}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+dx)}\right] - i(2A+3B)e^{\frac{3}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+dx)}\right] + 3(2A+B\,\text{Sec}[c+dx])\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+dx])^{3/2}(A+B\,\text{Sec}[c+dx])}{\sqrt{\text{Cos}[c+dx]}}, x, 4, 0\right\}$$

$$\frac{a^2(12A+7B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{2\sqrt{2}\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a^2(4A+5B)\,\text{Sin}[c+dx]}{4d\,\text{Cos}[c+dx]^{3/2}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a B\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{2d\,\text{Cos}[c+dx]^{3/2}}$$

$$\frac{1}{24d}\text{Cos}[c+dx]^{3/2}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3 (a(1+\text{Sec}[c+dx]))^{3/2}$$

$$\left(-3i(12A+7B)e^{\frac{1}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+dx)}\right] - i(12A+7B)e^{\frac{3}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+dx)}\right] + 3\,\text{Sec}[c+dx](4A+7B+2B\,\text{Sec}[c+dx])\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+dx])^{3/2}(A+B\,\text{Sec}[c+dx])}{\text{Cos}[c+dx]^{3/2}}, x, 5, 0\right\}$$

$$\frac{a^2(14A+11B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{4\sqrt{2}\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a^2(6A+7B)\,\text{Sin}[c+dx]}{12d\,\text{Cos}[c+dx]^{5/2}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a^2(14A+11B)\,\text{Sin}[c+dx]}{8d\,\text{Cos}[c+dx]^{3/2}\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a B\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{3d\,\text{Cos}[c+dx]^{5/2}}$$

$$\frac{1}{48d}$$

$$\text{Cos}[c+dx]^{3/2}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3 (a(1+\text{Sec}[c+dx]))^{3/2}\left(-3i(14A+11B)e^{\frac{1}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},1,\frac{5}{4},-e^{2i(c+dx)}\right] - i(14A+11B)e^{\frac{3}{2}i(c+dx)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},1,\frac{7}{4},-e^{2i(c+dx)}\right] + \text{Sec}[c+dx]\left(42A+33B+2(6A+11B)\,\text{Sec}[c+dx]+8B\,\text{Sec}[c+dx]^2\right)\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+dx])^{3/2}(A+B\,\text{Sec}[c+dx])}{\text{Cos}[c+dx]^{5/2}}, x, 6, 0\right\}$$

$$\frac{a^2 (88 A + 75 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{32 \sqrt{2} d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (8 A + 9 B) \text{Sin}[c + d x]}{24 d \text{Cos}[c + d x]^{7/2} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^2 (88 A + 75 B) \text{Sin}[c + d x]}{96 d \text{Cos}[c + d x]^{5/2} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (88 A + 75 B) \text{Sin}[c + d x]}{64 d \text{Cos}[c + d x]^{3/2} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a B \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{4 d \text{Cos}[c + d x]^{7/2}}$$

$$\frac{1}{384 d} \text{Cos}[c + d x]^{3/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^3 (a (1 + \text{Sec}[c + d x]))^{3/2} \left(-3 i (88 A + 75 B) e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - i (88 A + 75 B) e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + \text{Sec}[c + d x] \left(3 (88 A + 75 B) + 2 (88 A + 75 B) \text{Sec}[c + d x] + 8 (8 A + 15 B) \text{Sec}[c + d x]^2 + 48 B \text{Sec}[c + d x]^3\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^{5/2} (a + a \text{Sec}[c + d x])^{5/2} (A + B \text{Sec}[c + d x]), x, 5, 0\right\}$$

$$\frac{2 \sqrt{2} a^3 B \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{2 a^3 (32 A + 35 B) \text{Sin}[c + d x]}{15 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{2 a^2 (8 A + 5 B) \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{15 d} + \frac{2 a A \text{Cos}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{5 d}$$

$$\frac{1}{60 d} \text{Cos}[c + d x]^{5/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^5 (a (1 + \text{Sec}[c + d x]))^{5/2} \left(-30 i B e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - 10 i B e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + (89 A + 80 B + 2 (14 A + 5 B) \text{Cos}[c + d x] + 3 A \text{Cos}[2 (c + d x)]) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{5/2} (A + B \text{Sec}[c + d x]), x, 5, 0\right\}$$

$$\frac{\sqrt{2} a^3 (2 A + 5 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (14 A + 3 B) \text{Sin}[c + d x]}{3 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} -$$

$$\frac{a^2 (2 A - 3 B) \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{3 d \sqrt{\text{Cos}[c + d x]}} + \frac{2 a A \sqrt{\text{Cos}[c + d x]} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{3 d}$$

$$\frac{1}{12 d} \text{Cos}[c + d x]^{5/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^5 (a (1 + \text{Sec}[c + d x]))^{5/2} \left(-3 i (2 A + 5 B) e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - i (2 A + 5 B) e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + (16 A + 6 B + (A + 3 B + A \text{Cos}[2 (c + d x)]) \text{Sec}[c + d x]) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c + d x]} (a + a \text{Sec}[c + d x])^{5/2} (A + B \text{Sec}[c + d x]), x, 5, 0\right\}$$

$$\frac{a^3 (20 A + 19 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{2 \sqrt{2} d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (4 A - 9 B) \text{Sin}[c + d x]}{4 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^2 (4 A + 7 B) \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{4 d \sqrt{\text{Cos}[c + d x]}} + \frac{a B (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{2 d \sqrt{\text{Cos}[c + d x]}}$$

$$\frac{1}{48 d (B + A \text{Cos}[c + d x])} \text{Cos}[c + d x]^{7/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^5 (a (1 + \text{Sec}[c + d x]))^{5/2} (A + B \text{Sec}[c + d x])$$

$$\left(-3 i (20 A + 19 B) e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - i (20 A + 19 B) e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + 3 \left(8 A + (4 A + 11 B) \text{Sec}[c + d x] + 2 B \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a + a \text{Sec}[c + d x])^{5/2} (A + B \text{Sec}[c + d x])}{\sqrt{\text{Cos}[c + d x]}}, x, 5, 0\right\}$$

$$\frac{a^3 (38 A + 25 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{4 \sqrt{2} d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (54 A + 49 B) \text{Sin}[c + d x]}{24 d \text{Cos}[c + d x]^{3/2} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^2 (2 A + 3 B) \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{4 d \text{Cos}[c + d x]^{3/2}} + \frac{a B (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{3 d \text{Cos}[c + d x]^{3/2}}$$

$$\frac{1}{96 d}$$

$$\text{Cos}[c + d x]^{5/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^5 (a (1 + \text{Sec}[c + d x]))^{5/2} \left(-3 i (38 A + 25 B) e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - i (38 A + 25 B) e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + \text{Sec}[c + d x] \left(66 A + 75 B + 2 (6 A + 17 B) \text{Sec}[c + d x] + 8 B \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a + a \text{Sec}[c + d x])^{5/2} (A + B \text{Sec}[c + d x])}{\text{Cos}[c + d x]^{3/2}}, x, 6, 0\right\}$$

$$\frac{a^3 (200 A + 163 B) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{32 \sqrt{2} d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (104 A + 95 B) \text{Sin}[c + d x]}{96 d \text{Cos}[c + d x]^{5/2} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (200 A + 163 B) \text{Sin}[c + d x]}{64 d \text{Cos}[c + d x]^{3/2} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (8 A + 11 B) \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{24 d \text{Cos}[c + d x]^{5/2}} + \frac{a B (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{4 d \text{Cos}[c + d x]^{5/2}}$$

$$\frac{1}{768 d} \text{Cos}[c + d x]^{5/2} \text{Sec}\left[\frac{1}{2} (c + d x)\right]^5 (a (1 + \text{Sec}[c + d x]))^{5/2}$$

$$\left(-3 i (200 A + 163 B) e^{\frac{1}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{1}{4}, 1, \frac{5}{4}, -e^{2 i (c+d x)}\right] - i (200 A + 163 B) e^{\frac{3}{2} i (c+d x)} \text{Hypergeometric2F1}\left[\frac{3}{4}, 1, \frac{7}{4}, -e^{2 i (c+d x)}\right] + \text{Sec}[c + d x] \left(600 A + 489 B + (272 A + 326 B) \text{Sec}[c + d x] + 8 (8 A + 23 B) \text{Sec}[c + d x]^2 + 48 B \text{Sec}[c + d x]^3\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{a^3\,(326\,A+283\,B)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(170\,A+157\,B)\,\text{Sin}[c+d\,x]}{240\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(326\,A+283\,B)\,\text{Sin}[c+d\,x]}{192\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(326\,A+283\,B)\,\text{Sin}[c+d\,x]}{128\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^2\,(10\,A+13\,B)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{40\,d\,\text{Cos}[c+d\,x]^{7/2}}+\frac{a\,B\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{7/2}}$$

$$\frac{1}{1024\,d}(326\,A+283\,B)\,\text{Cos}[c+d\,x]^{5/2}$$
$$\left(-2\,i\,e^{\frac{1}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{1}{4},\,1,\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\frac{2}{3}\,i\,e^{\frac{3}{2}i\,(c+d\,x)}\,\text{Hypergeometric2F1}\left[\frac{3}{4},\,1,\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$
$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}+\frac{1}{d}\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}$$
$$\left(\frac{1}{20}\,B\,\text{Sec}[c+d\,x]^5\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{160}\,\text{Sec}[c+d\,x]^4\left(10\,A\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+29\,B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+\right.$$
$$\frac{1}{960}\,\text{Sec}[c+d\,x]^3\left(230\,A\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+283\,B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+\frac{1}{512}\,\text{Sec}[c+d\,x]$$
$$\left.\left(326\,A\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+283\,B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+\frac{1}{768}\,\text{Sec}[c+d\,x]^2\left(326\,A\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+283\,B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 2,\ 0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{A\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{C\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+A\,\text{Sin}[c+d\,x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a\,(4\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a\,(5\,A+4\,C)\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,(4\,A+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{a\,(5\,A+4\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{20\,d}+\frac{C\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{a A \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a A \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a A}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a A}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{2 a A \operatorname{Tan}[c+d x]}{3 d}+$$
$$\frac{8 a C \operatorname{Tan}[c+d x]}{15 d}+\frac{a A \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{3 d}+\frac{4 a C \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{15 d}+\frac{a C \operatorname{Sec}[c+d x]^4 \operatorname{Tan}[c+d x]}{5 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Sec}[c+d x]^2 (a+a \operatorname{Sec}[c+d x])\left(A+C \operatorname{Sec}[c+d x]^2\right), x, 5, 0\right\}$$

$$\frac{a(4 A+3 C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{8 d}+\frac{a(3 A+2 C) \operatorname{Tan}[c+d x]}{3 d}+\frac{a(4 A+3 C) \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{8 d}+$$
$$\frac{a C \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{12 d}+\frac{C \operatorname{Sec}[c+d x]^2 (a+a \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{4 d}$$
$$-\frac{a A \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a A \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a A}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a A}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 a C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{a A \operatorname{Tan}[c+d x]}{d}+\frac{2 a C \operatorname{Tan}[c+d x]}{3 d}+\frac{a C \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{3 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a \operatorname{Sec}[c+d x])\left(A+C \operatorname{Sec}[c+d x]^2\right), x, 4, 0\right\}$$

$$a A x+\frac{a(2 A+C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{a C \operatorname{Tan}[c+d x]}{2 d}+\frac{C(a+a \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{2 d}$$

$$\frac{1}{4} a \left(4 A x - \frac{2 (2 A + C) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] - \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]}{d} + \frac{4 A \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]}{d} + \frac{2 C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]}{d} + \frac{C}{d \left(\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] - \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} - \frac{C}{d \left(\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} + \frac{4 C \operatorname{Tan}[c + d x]}{d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Sec}[c + d x] (a + a \operatorname{Sec}[c + d x])^2 \left(A + C \operatorname{Sec}[c + d x]^2\right), x, 5, 0\right\}$$

$$\frac{a^2 (12 A + 7 C) \operatorname{ArcTanh}[\operatorname{Sin}[c + d x]]}{8 d} + \frac{a^2 (12 A + 7 C) \operatorname{Tan}[c + d x]}{6 d} + \frac{a^2 (12 A + 7 C) \operatorname{Sec}[c + d x] \operatorname{Tan}[c + d x]}{24 d} + \frac{C (a + a \operatorname{Sec}[c + d x])^2 \operatorname{Tan}[c + d x]}{6 d} + \frac{C \operatorname{Sec}[c + d x] (a + a \operatorname{Sec}[c + d x])^2 \operatorname{Tan}[c + d x]}{4 d} - \frac{1}{384 d (A + 2 C + A \operatorname{Cos}[2 (c + d x)])} a^2 \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^4 (1 + \operatorname{Sec}[c + d x])^2 \left(A + C \operatorname{Sec}[c + d x]^2\right) \left(24 (12 A + 7 C) \operatorname{Cos}[c + d x]^4 \left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] - \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right] + \operatorname{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) - \operatorname{Sec}[c] (-48 (3 A + 2 C) \operatorname{Sin}[c] + 3 (4 A + 15 C) \operatorname{Sin}[d x] + 12 A \operatorname{Sin}[2 c + d x] + 45 C \operatorname{Sin}[2 c + d x] + 144 A \operatorname{Sin}[c + 2 d x] + 128 C \operatorname{Sin}[c + 2 d x] - 48 A \operatorname{Sin}[3 c + 2 d x] + 12 A \operatorname{Sin}[2 c + 3 d x] + 21 C \operatorname{Sin}[2 c + 3 d x] + 12 A \operatorname{Sin}[4 c + 3 d x] + 21 C \operatorname{Sin}[4 c + 3 d x] + 48 A \operatorname{Sin}[3 c + 4 d x] + 32 C \operatorname{Sin}[3 c + 4 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a + a \operatorname{Sec}[c + d x])^2 \left(A + C \operatorname{Sec}[c + d x]^2\right), x, 5, 0\right\}$$

$$a^2 A x + \frac{a^2 (2 A + C) \operatorname{ArcTanh}[\operatorname{Sin}[c + d x]]}{d} + \frac{a^2 (A + C) \operatorname{Tan}[c + d x]}{d} + \frac{a C (a + a \operatorname{Sec}[c + d x]) \operatorname{Tan}[c + d x]}{3 d} + \frac{C (a + a \operatorname{Sec}[c + d x])^2 \operatorname{Tan}[c + d x]}{3 d}$$

$$\frac{A\,x\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{2\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{(-2\,A-C)\,\text{Cos}[c+d\,x]^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{(2\,A+C)\,\text{Cos}[c+d\,x]^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{C\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(7\,C\,\text{Cos}\left[\frac{c}{2}\right]-5\,C\,\text{Sin}\left[\frac{c}{2}\right]\right)}{24\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{6\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}+$$

$$\frac{C\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{12\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(-7\,C\,\text{Cos}\left[\frac{c}{2}\right]-5\,C\,\text{Sin}\left[\frac{c}{2}\right]\right)}{24\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{6\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$2\,a^2\,A\,x+\frac{a^2\,(2\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(2\,A-3\,C)\,\text{Sin}[c+d\,x]}{2\,d}+$$

$$\frac{a\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{8\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,a^2\,\text{Cos}[c+d\,x]^4\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4$$

$$(1+\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(8\,A\,x-\frac{2\,(2\,A+3\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$

$$\frac{2\,(2\,A+3\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+$$

$$\frac{C}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\left.\frac{C}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$a^3\,A\,x+\frac{a^3\,(28\,A+15\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{5\,a^3\,(4\,A+3\,C)\,\mathrm{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{a^2\,(4\,A+5\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{8\,d}+\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{4\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{256\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^3\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\mathrm{Sec}[c+d\,x])^3\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-8\,(28\,A+15\,C)\,\mathrm{Cos}[c+d\,x]^4\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\mathrm{Sec}[c]\,(24\,A\,d\,x\,\mathrm{Cos}[c]+16\,A\,d\,x\,\mathrm{Cos}[c+2\,d\,x]+16\,A\,d\,x\,\mathrm{Cos}[3\,c+2\,d\,x]+4\,A\,d\,x\,\mathrm{Cos}[3\,c+4\,d\,x]+4\,A\,d\,x\,\mathrm{Cos}[5\,c+4\,d\,x]-$$
$$72\,A\,\mathrm{Sin}[c]-72\,C\,\mathrm{Sin}[c]+4\,A\,\mathrm{Sin}[d\,x]+23\,C\,\mathrm{Sin}[d\,x]+4\,A\,\mathrm{Sin}[2\,c+d\,x]+23\,C\,\mathrm{Sin}[2\,c+d\,x]+$$
$$72\,A\,\mathrm{Sin}[c+2\,d\,x]+88\,C\,\mathrm{Sin}[c+2\,d\,x]-24\,A\,\mathrm{Sin}[3\,c+2\,d\,x]-8\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+4\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$15\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+4\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+15\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+24\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+24\,C\,\mathrm{Sin}[3\,c+4\,d\,x])\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$3\,a^3\,A\,x+\frac{a^3\,(6\,A+5\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}-\frac{5\,a^3\,C\,\mathrm{Sin}[c+d\,x]}{2\,d}+$$
$$\frac{a^2\,(3\,A+5\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{3 A x \operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{(-6 A-5 C) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{8 d (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{(6 A+5 C) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{8 d (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{A \operatorname{Cos}[d x] \operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[c]}{4 d (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{A \operatorname{Cos}[c] \operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[d x]}{4 d (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{C \operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}\left[\frac{d x}{2}\right]}{24 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^3}+$$

$$\frac{\operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(5 C \operatorname{Cos}\left[\frac{c}{2}\right]-4 C \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{24 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}+$$

$$\frac{\operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(3 A \operatorname{Sin}\left[\frac{d x}{2}\right]+11 C \operatorname{Sin}\left[\frac{d x}{2}\right]\right)}{12 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}+$$

$$\frac{C \operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}\left[\frac{d x}{2}\right]}{24 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^3}+$$

$$\frac{\operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(-5 C \operatorname{Cos}\left[\frac{c}{2}\right]-4 C \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{24 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}+$$

$$\frac{\operatorname{Cos}[c+d x]^5 \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(3 A \operatorname{Sin}\left[\frac{d x}{2}\right]+11 C \operatorname{Sin}\left[\frac{d x}{2}\right]\right)}{12 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^2 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$\frac{1}{2} a^3 (7 A+2 C) x+\frac{a^3 (2 A+7 C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{5 a^3 (A-C) \operatorname{Sin}[c+d x]}{2 d}-\frac{a^2 (A-4 C) (a+a \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{2 d}-$$

$$\frac{a (A-C) (a+a \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{2 d}+\frac{A \operatorname{Cos}[c+d x] (a+a \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{2 d}$$

$$\frac{1}{16\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^3\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\mathrm{Sec}[c+d\,x])^3\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(2\,(7\,A+2\,C)\,x-\frac{2\,(2\,A+7\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{2\,(2\,A+7\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{12\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{d}+\frac{12\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{d}+$$
$$\frac{C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$
$$\left.\frac{C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$a^4\,A\,x+\frac{a^4\,(12\,A+7\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{a^4\,(10\,A+7\,C)\,\mathrm{Tan}[c+d\,x]}{2\,d}+\frac{a^3\,(8\,A+7\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{6\,d}+$$
$$\frac{a^2\,(5\,A+7\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{5\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Tan}[c+d\,x]}{5\,d}$$
$$\frac{1}{3840\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^4\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\mathrm{Sec}[c+d\,x])^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-240\,(12\,A+7\,C)\,\mathrm{Cos}[c+d\,x]^5\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}[c]\,(150\,A\,d\,x\,\mathrm{Cos}[d\,x]+150\,A\,d\,x\,\mathrm{Cos}[2\,c+d\,x]+75\,A\,d\,x\,\mathrm{Cos}[2\,c+3\,d\,x]+75\,A\,d\,x\,\mathrm{Cos}[4\,c+3\,d\,x]+$$
$$15\,A\,d\,x\,\mathrm{Cos}[4\,c+5\,d\,x]+15\,A\,d\,x\,\mathrm{Cos}[6\,c+5\,d\,x]+1220\,A\,\mathrm{Sin}[d\,x]+1180\,C\,\mathrm{Sin}[d\,x]-780\,A\,\mathrm{Sin}[2\,c+d\,x]-$$
$$480\,C\,\mathrm{Sin}[2\,c+d\,x]+120\,A\,\mathrm{Sin}[c+2\,d\,x]+330\,C\,\mathrm{Sin}[c+2\,d\,x]+120\,A\,\mathrm{Sin}[3\,c+2\,d\,x]+330\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$820\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+800\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-180\,A\,\mathrm{Sin}[4\,c+3\,d\,x]-30\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+60\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+$$
$$\left.105\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+60\,A\,\mathrm{Sin}[5\,c+4\,d\,x]+105\,C\,\mathrm{Sin}[5\,c+4\,d\,x]+200\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+166\,C\,\mathrm{Sin}[4\,c+5\,d\,x]\right)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$4\,a^4\,A\,x+\frac{a^4\,(52\,A+35\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}-\frac{5\,a^4\,(4\,A+7\,C)\,\mathrm{Sin}[c+d\,x]}{8\,d}+\frac{a^3\,(36\,A+35\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{12\,d}+$$
$$\frac{a^2\,(4\,A+7\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{8\,d}+\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{4\,d}$$
$$\frac{1}{1536\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^4\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\mathrm{Sec}[c+d\,x])^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-24\,(52\,A+35\,C)\,\mathrm{Cos}[c+d\,x]^4\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}[c]\,(288\,A\,d\,x\,\mathrm{Cos}[c]+192\,A\,d\,x\,\mathrm{Cos}[c+2\,d\,x]+192\,A\,d\,x\,\mathrm{Cos}[3\,c+2\,d\,x]+48\,A\,d\,x\,\mathrm{Cos}[3\,c+4\,d\,x]+$$
$$48\,A\,d\,x\,\mathrm{Cos}[5\,c+4\,d\,x]-288\,A\,\mathrm{Sin}[c]-480\,C\,\mathrm{Sin}[c]+24\,A\,\mathrm{Sin}[d\,x]+105\,C\,\mathrm{Sin}[d\,x]+24\,A\,\mathrm{Sin}[2\,c+d\,x]+$$
$$105\,C\,\mathrm{Sin}[2\,c+d\,x]+288\,A\,\mathrm{Sin}[c+2\,d\,x]+544\,C\,\mathrm{Sin}[c+2\,d\,x]-96\,A\,\mathrm{Sin}[3\,c+2\,d\,x]-96\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$30\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+81\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+30\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+81\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+$$
$$\left.96\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+160\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+6\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+6\,A\,\mathrm{Sin}[6\,c+5\,d\,x]\right)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{1}{2}\,a^4\,(13\,A+2\,C)\,x+\frac{2\,a^4\,(2\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{5\,a^4\,(A-2\,C)\,\text{Sin}[c+d\,x]}{2\,d}+$$

$$\frac{a^3\,(3\,A+22\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{6\,d}-\frac{a^2\,(A-2\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{a\,(3\,A-2\,C)\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{6\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{(13\,A+2\,C)\,x\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{16\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{(-2\,A-3\,C)\,\text{Cos}[c+d\,x]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{4\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{(2\,A+3\,C)\,\text{Cos}[c+d\,x]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{4\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\text{Cos}[d\,x]\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}[c]}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\text{Cos}[2\,d\,x]\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}[2\,c]}{32\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\text{Cos}[c]\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}[d\,x]}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\text{Cos}[2\,c]\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}[2\,d\,x]}{32\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{C\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{48\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(13\,C\,\text{Cos}\left[\frac{c}{2}\right]-11\,C\,\text{Sin}\left[\frac{c}{2}\right]\right)}{96\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+20\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{24\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}+$$

$$\frac{C\,\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{48\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(-13\,C\,\text{Cos}\left[\frac{c}{2}\right]-11\,C\,\text{Sin}\left[\frac{c}{2}\right]\right)}{96\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{\text{Cos}[c+d\,x]^6\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+20\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{24\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$2 a^4 (3 A + 2 C) x + \frac{a^4 (2 A + 13 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{5 a^4 (2 A - C) \text{Sin}[c + d x]}{2 d} -$$

$$\frac{a^3 (4 A - 9 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{3 d} - \frac{a^2 (2 A - C) (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} +$$

$$\frac{2 a A \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{3 d} + \frac{A \text{Cos}[c + d x]^2 (a + a \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{3 d}$$

$$\frac{(3 A + 2 C) x \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{4 (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(-2 A - 13 C) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{16 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(2 A + 13 C) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{16 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(27 A + 4 C) \text{Cos}[d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[c]}{32 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[2 d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 c]}{8 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[3 d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 c]}{96 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(27 A + 4 C) \text{Cos}[c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[d x]}{32 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[2 c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 d x]}{8 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[3 c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 d x]}{96 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{32 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} +$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{2 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] - \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)} -$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{32 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} +$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{2 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] + \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c + d x]^4 \left(A + C \text{Sec}[c + d x]^2\right)}{a + a \text{Sec}[c + d x]}, x, 6, 0\right\}$$

$$\frac{3\,(4\,A+5\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,a\,d}-\frac{2\,(3\,A+4\,C)\,\text{Tan}[c+d\,x]}{3\,a\,d}+\frac{3\,(4\,A+5\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,a\,d}-$$
$$\frac{(3\,A+4\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,a\,d}+\frac{(4\,A+5\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,a\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$-\frac{1}{192\,a\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])}$$
$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(288\,(4\,A+5\,C)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Cos}[c+d\,x]\right.$$
$$\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\left(15\,(4\,A+5\,C)\,\text{Sin}\left[\frac{d\,x}{2}\right]+(60\,A+91\,C)\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-204\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$
$$219\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+60\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-21\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-84\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-165\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-$$
$$36\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-5\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-36\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-69\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-132\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-$$
$$165\,C\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+156\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+211\,C\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+60\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$115\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+60\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+51\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-36\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-$$
$$45\,C\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+12\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+19\,C\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-12\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-5\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-$$
$$12\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-21\,C\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-36\,A\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-45\,C\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+48\,A\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+$$
$$\left.\left.64\,C\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+24\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+40\,C\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+24\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+24\,C\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\ x,\ 5,\ 0\right\}$$
$$-\frac{(2\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a\,d}+\frac{2\,(3\,A+4\,C)\,\text{Tan}[c+d\,x]}{3\,a\,d}-$$
$$\frac{(2\,A+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a\,d}+\frac{(3\,A+4\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,a\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{2\,(2\,A+3\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}-$$

$$\frac{2\,(2\,A+3\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}+$$

$$\frac{4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}+$$

$$\frac{2\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}-$$

$$\frac{2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(C\,\mathrm{Cos}\left[\frac{c}{2}\right]-2\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}+$$

$$\frac{2\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^3}+$$

$$\frac{2\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(C\,\mathrm{Cos}\left[\frac{c}{2}\right]+2\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)^2}+$$

$$\frac{4\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(3\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$\frac{(2\,A+3\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a\,d}-\frac{(A+2\,C)\,\mathrm{Tan}[c+d\,x]}{a\,d}+\frac{(2\,A+3\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a\,d}-\frac{(A+C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left(-2\,(2\,A+3\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.\right.$$

$$4\,A\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\left.\left.4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]+\frac{C}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$-\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}+\frac{(A+2\,C)\,\text{Tan}[c+d\,x]}{a\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(4\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\left(\left(A+C\right)\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-\frac{2\,(C+2\,(A+C)\,\text{Cos}[c])\,\text{Sin}\left[\frac{c}{2}\right]}{\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{5\,c}{2}\right]}+\right.\right.$$
$$C\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$\left.\left.\left.\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]\right)\right)\right)\Big/\left(a\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{A\,x}{a}+\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}-\frac{(A+C)\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c+d\,x]$$
$$\left(\text{Cos}\left[\frac{d\,x}{2}\right]\left(A\,d\,x-C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\text{Cos}\left[c+\frac{d\,x}{2}\right]\right.$$
$$\left.\left(A\,d\,x-C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-2\,(A+C)\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$-\frac{A\,x}{a}+\frac{(2\,A+C)\,\text{Sin}[c+d\,x]}{a\,d}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,a\,d}\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]$$
$$\left(-2\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-2\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+5\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+4\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{(2\,A+5\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^2\,d}+\frac{2\,(5\,A+12\,C)\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-\frac{(2\,A+5\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{a^2\,d}+$$
$$\frac{(5\,A+12\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{2\,(2\,A+5\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{24 a^2 d (A+2C+A\cos[2(c+dx)])(1+\sec[c+dx])^2}\cos\left[\frac{1}{2}(c+dx)\right](A+C\sec[c+dx]^2)$$
$$\left(192(2A+5C)\cos\left[\frac{1}{2}(c+dx)\right]^3\left(\log\left[\cos\left[\frac{1}{2}(c+dx)\right]-\sin\left[\frac{1}{2}(c+dx)\right]\right]-\log\left[\cos\left[\frac{1}{2}(c+dx)\right]+\sin\left[\frac{1}{2}(c+dx)\right]\right]\right)+$$
$$\sec\left[\frac{c}{2}\right]\sec[c]\sec[c+dx]^3\left(-3(8A+C)\sin\left[\frac{dx}{2}\right]+(66A+155C)\sin\left[\frac{3dx}{2}\right]-60A\sin\left[c-\frac{dx}{2}\right]-153C\sin\left[c-\frac{dx}{2}\right]+\right.$$
$$24A\sin\left[c+\frac{dx}{2}\right]+21C\sin\left[c+\frac{dx}{2}\right]-60A\sin\left[2c+\frac{dx}{2}\right]-135C\sin\left[2c+\frac{dx}{2}\right]-4A\sin\left[c+\frac{3dx}{2}\right]+25C\sin\left[c+\frac{3dx}{2}\right]+$$
$$36A\sin\left[2c+\frac{3dx}{2}\right]+45C\sin\left[2c+\frac{3dx}{2}\right]-34A\sin\left[3c+\frac{3dx}{2}\right]-85C\sin\left[3c+\frac{3dx}{2}\right]+42A\sin\left[c+\frac{5dx}{2}\right]+$$
$$99C\sin\left[c+\frac{5dx}{2}\right]+21C\sin\left[2c+\frac{5dx}{2}\right]+24A\sin\left[3c+\frac{5dx}{2}\right]+33C\sin\left[3c+\frac{5dx}{2}\right]-18A\sin\left[4c+\frac{5dx}{2}\right]-$$
$$45C\sin\left[4c+\frac{5dx}{2}\right]+24A\sin\left[2c+\frac{7dx}{2}\right]+57C\sin\left[2c+\frac{7dx}{2}\right]+3A\sin\left[3c+\frac{7dx}{2}\right]+18C\sin\left[3c+\frac{7dx}{2}\right]+$$
$$15A\sin\left[4c+\frac{7dx}{2}\right]+24C\sin\left[4c+\frac{7dx}{2}\right]-6A\sin\left[5c+\frac{7dx}{2}\right]-15C\sin\left[5c+\frac{7dx}{2}\right]+10A\sin\left[3c+\frac{9dx}{2}\right]+$$
$$\left.24C\sin\left[3c+\frac{9dx}{2}\right]+3A\sin\left[4c+\frac{9dx}{2}\right]+11C\sin\left[4c+\frac{9dx}{2}\right]+7A\sin\left[5c+\frac{9dx}{2}\right]+13C\sin\left[5c+\frac{9dx}{2}\right]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sec[c+dx]^3(A+C\sec[c+dx]^2)}{(a+a\sec[c+dx])^2},\ x,\ 5,\ 0\right\}$$

$$\frac{(2A+7C)\operatorname{ArcTanh}[\sin[c+dx]]}{2a^2d}-\frac{4(A+4C)\tan[c+dx]}{3a^2d}+$$
$$\frac{(2A+7C)\sec[c+dx]\tan[c+dx]}{2a^2d}-\frac{(A+C)\sec[c+dx]^3\tan[c+dx]}{3d(a+a\sec[c+dx])^2}-\frac{2(A+4C)\sec[c+dx]^2\tan[c+dx]}{3ad(a+a\sec[c+dx])}$$
$$-\frac{1}{24a^2d(A+2C+A\cos[2(c+dx)])(1+\sec[c+dx])^2}\cos\left[\frac{1}{2}(c+dx)\right](A+C\sec[c+dx]^2)$$
$$\left(96(2A+7C)\cos\left[\frac{1}{2}(c+dx)\right]^3\left(\log\left[\cos\left[\frac{1}{2}(c+dx)\right]-\sin\left[\frac{1}{2}(c+dx)\right]\right]-\log\left[\cos\left[\frac{1}{2}(c+dx)\right]+\sin\left[\frac{1}{2}(c+dx)\right]\right]\right)+$$
$$\sec\left[\frac{c}{2}\right]\sec[c]\sec[c+dx]^2\left(-2(10A+7C)\sin\left[\frac{dx}{2}\right]+(22A+97C)\sin\left[\frac{3dx}{2}\right]-36A\sin\left[c-\frac{dx}{2}\right]-\right.$$
$$126C\sin\left[c-\frac{dx}{2}\right]+36A\sin\left[c+\frac{dx}{2}\right]+42C\sin\left[c+\frac{dx}{2}\right]-20A\sin\left[2c+\frac{dx}{2}\right]-98C\sin\left[2c+\frac{dx}{2}\right]-$$
$$18A\sin\left[c+\frac{3dx}{2}\right]-3C\sin\left[c+\frac{3dx}{2}\right]+22A\sin\left[2c+\frac{3dx}{2}\right]+37C\sin\left[2c+\frac{3dx}{2}\right]-18A\sin\left[3c+\frac{3dx}{2}\right]-$$
$$63C\sin\left[3c+\frac{3dx}{2}\right]+18A\sin\left[c+\frac{5dx}{2}\right]+75C\sin\left[c+\frac{5dx}{2}\right]-6A\sin\left[2c+\frac{5dx}{2}\right]+15C\sin\left[2c+\frac{5dx}{2}\right]+$$
$$18A\sin\left[3c+\frac{5dx}{2}\right]+39C\sin\left[3c+\frac{5dx}{2}\right]-6A\sin\left[4c+\frac{5dx}{2}\right]-21C\sin\left[4c+\frac{5dx}{2}\right]+8A\sin\left[2c+\frac{7dx}{2}\right]+$$
$$\left.32C\sin\left[2c+\frac{7dx}{2}\right]+12C\sin\left[3c+\frac{7dx}{2}\right]+8A\sin\left[4c+\frac{7dx}{2}\right]+20C\sin\left[4c+\frac{7dx}{2}\right]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sec[c+dx](A+C\sec[c+dx]^2)}{(a+a\sec[c+dx])^2},\ x,\ 3,\ 0\right\}$$

$$\frac{C\operatorname{ArcTanh}[\sin[c+dx]]}{a^2d}-\frac{(A+C)\sec[c+dx]\tan[c+dx]}{3d(a+a\sec[c+dx])^2}+\frac{2(A-2C)\tan[c+dx]}{3ad(a+a\sec[c+dx])}$$

$$-\frac{1}{6 a^2 d (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}\left[\frac{c}{2}\right] \text{Sec}[c+d x]^2 \left(3 C \text{Cos}\left[c+\frac{3 d x}{2}\right] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+3 C \text{Cos}\left[2 c+\frac{3 d x}{2}\right] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+9 C \text{Cos}\left[\frac{d x}{2}\right] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)+9 C \text{Cos}\left[c+\frac{d x}{2}\right] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)-3 C \text{Cos}\left[c+\frac{3 d x}{2}\right] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-3 C \text{Cos}\left[2 c+\frac{3 d x}{2}\right] \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-6 A \text{Sin}\left[\frac{d x}{2}\right]+18 C \text{Sin}\left[\frac{d x}{2}\right]+6 A \text{Sin}\left[c+\frac{d x}{2}\right]-6 C \text{Sin}\left[c+\frac{d x}{2}\right]-4 A \text{Sin}\left[c+\frac{3 d x}{2}\right]+8 C \text{Sin}\left[c+\frac{3 d x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C \text{Sec}[c+d x]^2}{(a+a \text{Sec}[c+d x])^2}, x, 3, 0\right\}$$

$$\frac{A x}{a^2}-\frac{(A+C) \text{Tan}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}-\frac{2 (2 A-C) \text{Tan}[c+d x]}{3 a d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{24 a^2 d} \text{Sec}\left[\frac{c}{2}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^3 \left(9 A d x \text{Cos}\left[\frac{d x}{2}\right]+9 A d x \text{Cos}\left[c+\frac{d x}{2}\right]+3 A d x \text{Cos}\left[c+\frac{3 d x}{2}\right]+3 A d x \text{Cos}\left[2 c+\frac{3 d x}{2}\right]-18 A \text{Sin}\left[\frac{d x}{2}\right]+6 C \text{Sin}\left[\frac{d x}{2}\right]+12 A \text{Sin}\left[c+\frac{d x}{2}\right]-10 A \text{Sin}\left[c+\frac{3 d x}{2}\right]+2 C \text{Sin}\left[c+\frac{3 d x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right)}{(a+a \text{Sec}[c+d x])^2}, x, 4, 0\right\}$$

$$-\frac{2 A x}{a^2}+\frac{(10 A+C) \text{Sin}[c+d x]}{3 a^2 d}-\frac{(A+C) \text{Sin}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}-\frac{2 A \text{Sin}[c+d x]}{a d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^2 d} \text{Sec}\left[\frac{c}{2}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^3 \left(-36 A d x \text{Cos}\left[\frac{d x}{2}\right]-36 A d x \text{Cos}\left[c+\frac{d x}{2}\right]-12 A d x \text{Cos}\left[c+\frac{3 d x}{2}\right]-12 A d x \text{Cos}\left[2 c+\frac{3 d x}{2}\right]+66 A \text{Sin}\left[\frac{d x}{2}\right]+12 C \text{Sin}\left[\frac{d x}{2}\right]-30 A \text{Sin}\left[c+\frac{d x}{2}\right]-12 C \text{Sin}\left[c+\frac{d x}{2}\right]+41 A \text{Sin}\left[c+\frac{3 d x}{2}\right]+8 C \text{Sin}\left[c+\frac{3 d x}{2}\right]+9 A \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+3 A \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+3 A \text{Sin}\left[3 c+\frac{5 d x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^3 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+a \text{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$-\frac{(5 A+2 C) x}{a^2}+\frac{2 (12 A+5 C) \text{Sin}[c+d x]}{3 a^2 d}-\frac{(5 A+2 C) \text{Cos}[c+d x] \text{Sin}[c+d x]}{a^2 d}+\frac{(12 A+5 C) \text{Cos}[c+d x]^2 \text{Sin}[c+d x]}{3 a^2 d}-\frac{(A+C) \text{Cos}[c+d x]^2 \text{Sin}[c+d x]}{3 d (a+a \text{Sec}[c+d x])^2}-\frac{2 (5 A+2 C) \text{Cos}[c+d x]^2 \text{Sin}[c+d x]}{3 a d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^2 d (1+\text{Sec}[c+d x])^2} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}\left[\frac{c}{2}\right] \text{Sec}[c+d x]^2 \left(-72 (5 A+2 C) d x \text{Cos}\left[\frac{d x}{2}\right]-72 (5 A+2 C) d x \text{Cos}\left[c+\frac{d x}{2}\right]-120 A d x \text{Cos}\left[c+\frac{3 d x}{2}\right]-48 C d x \text{Cos}\left[c+\frac{3 d x}{2}\right]-120 A d x \text{Cos}\left[2 c+\frac{3 d x}{2}\right]-48 C d x \text{Cos}\left[2 c+\frac{3 d x}{2}\right]+516 A \text{Sin}\left[\frac{d x}{2}\right]+264 C \text{Sin}\left[\frac{d x}{2}\right]-156 A \text{Sin}\left[c+\frac{d x}{2}\right]-120 C \text{Sin}\left[c+\frac{d x}{2}\right]+342 A \text{Sin}\left[c+\frac{3 d x}{2}\right]+164 C \text{Sin}\left[c+\frac{3 d x}{2}\right]+118 A \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+36 C \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+30 A \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+12 C \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+30 A \text{Sin}\left[3 c+\frac{5 d x}{2}\right]+12 C \text{Sin}\left[3 c+\frac{5 d x}{2}\right]-3 A \text{Sin}\left[3 c+\frac{7 d x}{2}\right]-3 A \text{Sin}\left[4 c+\frac{7 d x}{2}\right]+A \text{Sin}\left[4 c+\frac{9 d x}{2}\right]+A \text{Sin}\left[5 c+\frac{9 d x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+a \text{Sec}[c+d x])^3}, x, 6, 0\right\}$$

$$\frac{(2 A+13 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a^3 d}-\frac{2 (11 A+76 C) \text{Tan}[c+d x]}{15 a^3 d}+\frac{(2 A+13 C) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a^3 d}-\frac{(A+C) \text{Sec}[c+d x]^4 \text{Tan}[c+d x]}{5 d (a+a \text{Sec}[c+d x])^3}-\frac{(A+11 C) \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{15 a d (a+a \text{Sec}[c+d x])^2}-\frac{(11 A+76 C) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{15 a^2 d (a+a \text{Sec}[c+d x])}$$

$$-\frac{1}{240 a^3 d (A+2 C+A \text{Cos}[2 (c+d x)]) (1+\text{Sec}[c+d x])^3} \text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right) \left(1920 (2 A+13 C) \text{Cos}\left[\frac{1}{2}(c+d x)\right]^5 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)+\text{Sec}\left[\frac{c}{2}\right] \text{Sec}[c] \text{Sec}[c+d x]^2 \left(-5 (98 A+247 C) \text{Sin}\left[\frac{d x}{2}\right]+5 (106 A+761 C) \text{Sin}\left[\frac{3 d x}{2}\right]-654 A \text{Sin}\left[c-\frac{d x}{2}\right]-4329 C \text{Sin}\left[c-\frac{d x}{2}\right]+654 A \text{Sin}\left[c+\frac{d x}{2}\right]+1989 C \text{Sin}\left[c+\frac{d x}{2}\right]-490 A \text{Sin}\left[2 c+\frac{d x}{2}\right]-3575 C \text{Sin}\left[2 c+\frac{d x}{2}\right]-350 A \text{Sin}\left[c+\frac{3 d x}{2}\right]-475 C \text{Sin}\left[c+\frac{3 d x}{2}\right]+530 A \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+2005 C \text{Sin}\left[2 c+\frac{3 d x}{2}\right]-350 A \text{Sin}\left[3 c+\frac{3 d x}{2}\right]-2275 C \text{Sin}\left[3 c+\frac{3 d x}{2}\right]+378 A \text{Sin}\left[c+\frac{5 d x}{2}\right]+2673 C \text{Sin}\left[c+\frac{5 d x}{2}\right]-150 A \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+105 C \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+378 A \text{Sin}\left[3 c+\frac{5 d x}{2}\right]+1593 C \text{Sin}\left[3 c+\frac{5 d x}{2}\right]-150 A \text{Sin}\left[4 c+\frac{5 d x}{2}\right]-975 C \text{Sin}\left[4 c+\frac{5 d x}{2}\right]+190 A \text{Sin}\left[2 c+\frac{7 d x}{2}\right]+1325 C \text{Sin}\left[2 c+\frac{7 d x}{2}\right]-30 A \text{Sin}\left[3 c+\frac{7 d x}{2}\right]+255 C \text{Sin}\left[3 c+\frac{7 d x}{2}\right]+190 A \text{Sin}\left[4 c+\frac{7 d x}{2}\right]+875 C \text{Sin}\left[4 c+\frac{7 d x}{2}\right]-30 A \text{Sin}\left[5 c+\frac{7 d x}{2}\right]-195 C \text{Sin}\left[5 c+\frac{7 d x}{2}\right]+44 A \text{Sin}\left[3 c+\frac{9 d x}{2}\right]+304 C \text{Sin}\left[3 c+\frac{9 d x}{2}\right]+90 C \text{Sin}\left[4 c+\frac{9 d x}{2}\right]+44 A \text{Sin}\left[5 c+\frac{9 d x}{2}\right]+214 C \text{Sin}\left[5 c+\frac{9 d x}{2}\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+a \text{Sec}[c+d x])^3}, x, 5, 0\right\}$$

$$-\frac{3 C \text{ArcTanh}[\text{Sin}[c+d x]]}{a^3 d}+\frac{2 (A+36 C) \text{Tan}[c+d x]}{15 a^3 d}-\frac{(A+C) \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{5 d (a+a \text{Sec}[c+d x])^3}+\frac{(A-9 C) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{15 a d (a+a \text{Sec}[c+d x])^2}-\frac{3 C \text{Sec}[c+d x] \text{Tan}[c+d x]}{a^2 d (a+a \text{Sec}[c+d x])}$$

$$\frac{48\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}-$$

$$\frac{48\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{1}{60\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-20\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-255\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+22\,A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+567\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-10\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$

$$600\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+10\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+375\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-20\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-480\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-$$

$$60\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+22\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+402\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-225\,C\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+10\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+$$

$$315\,C\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+30\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+10\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+240\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-45\,C\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+$$

$$\left.2\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+72\,C\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+15\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+2\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+57\,C\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 4,\ 0\right\}$$

$$\frac{A\,x}{a^3}-\frac{(A+C)\,\text{Tan}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(7\,A-3\,C)\,\text{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(22\,A-3\,C)\,\text{Tan}[c+d\,x]}{15\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{480\,a^3\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$

$$\left(150\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+150\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+15\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+\right.$$

$$15\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-370\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+30\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+270\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-30\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$\left.230\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+30\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+90\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-64\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+6\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 5,\ 0\right\}$$

$$-\frac{3\,A\,x}{a^3}+\frac{2\,(36\,A+C)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(9\,A-C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{3\,A\,\text{Sin}[c+d\,x]}{a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{960\,a^3\,d}$$

$$\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(900\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+900\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+450\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+450\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+\right.$$

$$90\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+90\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-1755\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-160\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+1125\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+$$

$$120\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-1215\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-80\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+225\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+60\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$

$$\left.363\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-28\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-75\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-15\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-15\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 7,\ 0\right\}$$

$$-\frac{(23\,A+6\,C)\,x}{2\,a^3}+\frac{8\,(34\,A+9\,C)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(23\,A+6\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^3\,d}+\frac{4\,(34\,A+9\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-$$
$$\frac{(A+C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(13\,A+3\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(23\,A+6\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{3840\,a^3\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$
$$\Bigg(600\,(23\,A+6\,C)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+600\,(23\,A+6\,C)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+6900\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+1800\,C\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$6900\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+1800\,C\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+1380\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+360\,C\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$1380\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+360\,C\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-20\,410\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-7020\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+$$
$$11\,110\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+4500\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-15\,380\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-4860\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+380\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$900\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-4777\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-1452\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-1625\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-$$
$$300\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-230\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-60\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-230\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-$$
$$60\,C\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+20\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+20\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-5\,A\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]-5\,A\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^5\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$\frac{(2\,A+21\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^4\,d}-\frac{32\,(5\,A+54\,C)\,\text{Tan}[c+d\,x]}{105\,a^4\,d}+$$
$$\frac{(2\,A+21\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^4\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]^5\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}-\frac{2\,C\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$
$$\frac{(10\,A+129\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{16\,(5\,A+54\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{3360\,a^4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^4}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(53\,760\,(2\,A+21\,C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\left(-14\,(1010\,A+5229\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+4\,(3790\,A+41\,667\,C)\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-17\,220\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-\right.$$
$$183\,162\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+17\,220\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+100\,842\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-14\,140\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-$$
$$155\,526\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-9800\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-37\,380\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+15\,160\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$101\,148\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-9800\,A\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-102\,900\,C\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+10\,920\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+$$
$$119\,364\,C\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-4760\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-8820\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+10\,920\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$
$$78\,204\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-4760\,A\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-49\,980\,C\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+5890\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$
$$64\,053\,C\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-1470\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+3885\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+5890\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+$$
$$44\,733\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-1470\,A\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-15\,435\,C\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+2030\,A\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+$$
$$21\,987\,C\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-210\,A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+3675\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+2030\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+$$
$$16\,107\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-210\,A\,\mathrm{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]-2205\,C\,\mathrm{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]+320\,A\,\mathrm{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]+$$
$$\left.\left.3456\,C\,\mathrm{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]+840\,C\,\mathrm{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+320\,A\,\mathrm{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]+2616\,C\,\mathrm{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$

$$-\frac{4\,C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{a^4\,d}+\frac{2\,(3\,A+332\,C)\,\mathrm{Tan}[c+d\,x]}{105\,a^4\,d}-\frac{(A+C)\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}+$$
$$\frac{2\,(A-6\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+\frac{(3\,A-88\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{4\,C\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{840\,a^4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^4}$$
$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\mathrm{Sec}[c+d\,x]^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(107\,520\,C\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\right.$$
$$\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]$$
$$\left(-70\,(3\,A+154\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+28\,(9\,A+671\,C)\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-126\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-20\,524\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+126\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+\right.$$
$$14\,644\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-210\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-16\,660\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-4690\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+252\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$14\,378\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-9100\,C\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+132\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+11\,668\,C\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-630\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$132\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+9358\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-2940\,C\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+42\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$
$$4228\,C\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+315\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+42\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+3493\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-420\,C\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.\left.6\,A\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+664\,C\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+105\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+6\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+559\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 5,\ 0\right\}$$
$$\frac{A\,x}{a^4}-\frac{(A+C)\,\mathrm{Tan}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{2\,(5\,A-2\,C)\,\mathrm{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(55\,A-8\,C)\,\mathrm{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{8\,(20\,A-C)\,\mathrm{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{13\,440\,a^4\,d}$$
$$\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(3675\,A\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+3675\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+2205\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+2205\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+\right.$$
$$735\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+735\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+105\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+105\,A\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-$$
$$9940\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+560\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+8260\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-350\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-7140\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$336\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+3780\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-210\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-2800\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$\left.182\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+840\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-520\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+26\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$
$$-\frac{4\,A\,x}{a^4}+\frac{2\,(332\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-$$
$$\frac{2\,(6\,A-C)\,\mathrm{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(88\,A-3\,C)\,\mathrm{Sin}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{4\,A\,\mathrm{Sin}[c+d\,x]}{a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{26880\,a^4\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(29400\,A\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+29400\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+17640\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+17640\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+5880\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+5880\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+840\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+840\,A\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-60830\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2520\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+46130\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+2520\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-46116\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-1764\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+18060\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+1260\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-19292\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-588\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+2100\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+420\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-3791\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-144\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-735\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-105\,A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-105\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^3\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,(11\,A+2\,C)\,x}{a^4}+\frac{8\,(454\,A+83\,C)\,\mathrm{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{2\,(11\,A+2\,C)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{a^4\,d}+\frac{4\,(454\,A+83\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{105\,a^4\,d}-\frac{(A+C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{2\,(8\,A+C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(178\,A+31\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{4\,(11\,A+2\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{107520\,a^4\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(58800\,(11\,A+2\,C)\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+58800\,(11\,A+2\,C)\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+388080\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+70560\,C\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+388080\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+70560\,C\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+129360\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+23520\,C\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+129360\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+23520\,C\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+18480\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+3360\,C\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+18480\,A\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+3360\,C\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-1010660\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-243320\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+687260\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+184520\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-814107\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-184464\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+204645\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+72240\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-357609\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-77168\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-18025\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+8400\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-72522\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-15164\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-24010\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-2940\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-2310\,A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-420\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-2310\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-420\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+175\,A\,\mathrm{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+175\,A\,\mathrm{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]-35\,A\,\mathrm{Sin}\left[6\,c+\frac{13\,d\,x}{2}\right]-35\,A\,\mathrm{Sin}\left[7\,c+\frac{13\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{a}\,(3A+8C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{4d}+\frac{a\,A\,\text{Sin}[c+dx]}{4d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{A\,\text{Cos}[c+dx]\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{2d}$$

$$\frac{1}{2}\left(\frac{\text{Sec}\left[\frac{1}{2}(c+dx)\right]\sqrt{a\,(1+\text{Sec}[c+dx])}\left(-\frac{1}{4}A\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\frac{1}{2}A\,\text{Sin}\left[\frac{3}{2}(c+dx)\right]+\frac{1}{4}A\,\text{Sin}\left[\frac{5}{2}(c+dx)\right]\right)}{d}-\right.$$

$$\frac{1}{d}2\left(-3-2\sqrt{2}\right)(3A+8C)\,\text{Cos}\left[\frac{1}{4}(c+dx)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+dx)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+dx)\right]}}\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+dx)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+dx)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+dx)\right]\right)\text{Sec}\left[\frac{1}{4}(c+dx)\right]^2}\;\text{Sec}\left[\frac{1}{2}(c+dx)\right]$$

$$\left.\text{Sec}[c+dx]\sqrt{a\,(1+\text{Sec}[c+dx])}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+dx)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+dx]^2\,(a+a\,\text{Sec}[c+dx])^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right),x,4,0\right\}$$

$$\frac{a^{3/2}\,(7A+8C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{4d}+\frac{a^2\,(5A-8C)\,\text{Sin}[c+dx]}{4d\sqrt{a+a\,\text{Sec}[c+dx]}}-$$

$$\frac{a\,(A-4C)\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{2d}+\frac{A\,\text{Cos}[c+dx]\,(a+a\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{2d}$$

$$\frac{1}{2}\left(\frac{1}{d}\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\right.$$

$$\left(-\frac{1}{8}(5\,A-16\,C)\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{3}{4}A\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]+\frac{1}{8}A\,\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]\right)+$$

$$\frac{1}{d}\left(-2-\frac{3}{\sqrt{2}}\right)(7\,A+8\,C)\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),x,5,0\right\}$$

$$\frac{a^{5/2}(19\,A+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+\frac{a^3(27\,A-56\,C)\,\text{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{a^2(A-8\,C)\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{a\,(3\,A-4\,C)\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{6\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{2}\left(\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\right.$$

$$\left(-\frac{1}{48}(27\,A-128\,C)\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{1}{3}C\,\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\frac{5}{8}A\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]+\frac{1}{16}A\,\text{Sin}\left[\frac{5}{2}(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(8-6\sqrt{2}\right)d}(19\,A+8\,C)\,\text{Cos}\left[\frac{1}{4}(c+d\,x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d\,x)\right]^2}$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^5(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},x,6,0\right\}$$

$$-\frac{(9\,A+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\sqrt{a}\,d}+\frac{\sqrt{2}\,(A+C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}+$$

$$\frac{(7\,A+8\,C)\,\text{Sin}[c+d\,x]}{8\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{A\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\sqrt{\text{Sec}[c+d\,x]}\left(\frac{\left(16\,(A+C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right]-\sqrt{2}\,(9\,A+8\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\right.$$

$$\left.\frac{1}{3}\text{Cos}\left[\frac{1}{2}(c+d\,x)\right](25\,A+24\,C-2\,A\,\text{Cos}[c+d\,x]+4\,A\,\text{Cos}[2\,(c+d\,x)])\sqrt{\text{Sec}[c+d\,x]}\left(-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(19\,A+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{3/2}\,d}-\frac{(13\,A+5\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-$$

$$\frac{(A+C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{(7\,A+2\,C)\,\text{Sin}[c+d\,x]}{4\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(2\,A+C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(\frac{\left(-2\,(13\,A+5\,C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,(19\,A+8\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\left.\frac{1}{2}\,(6\,A+2\,C+3\,A\,\text{Cos}[c+d\,x]-A\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{(47\,A+24\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,a^{3/2}\,d}+\frac{(17\,A+9\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{(A+C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{3\,(7\,A+4\,C)\,\text{Sin}[c+d\,x]}{8\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(13\,A+6\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(5\,A+3\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(\frac{\left(4\,(17\,A+9\,C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\sqrt{2}\,(47\,A+24\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{1}{6}\,(60\,A+36\,C+(43\,A+24\,C)\,\text{Cos}[c+d\,x]-3\,A\,\text{Cos}[2\,(c+d\,x)]+2\,A\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}-\frac{(43\,A-5\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{(A+C)\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{(11\,A-5\,C)\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{64\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\,\text{Cos}[c+d\,x]^2\,(1+\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(4\,\sqrt{2}\,(11\,A-5\,C)\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\text{Cot}[c+d\,x]\,\sqrt{-1+\text{Sec}[c+d\,x]}+\right.$$

$$128\,A\left(\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]+\text{ArcTan}\left[\frac{-2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]-\text{ArcTan}\left[\frac{2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\right)\text{Cot}[c+d\,x]$$

$$\left.\sqrt{-1+\text{Sec}[c+d\,x]}+(11\,A-5\,C+(15\,A-C)\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{5\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}+\frac{(115\,A+3\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-$$

$$\frac{(A+C)\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{(15\,A-C)\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(35\,A+3\,C)\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{64\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,\mathrm{Cos}[c+d\,x]\,(1+\mathrm{Sec}[c+d\,x])^3$$

$$(A\,\mathrm{Cos}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x])\left(-4\sqrt{2}\,(35\,A+3\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\mathrm{Sec}[c+d\,x]}}\right]\mathrm{Cot}[c+d\,x]\,\sqrt{-1+\mathrm{Sec}[c+d\,x]}\,-\right.$$

$$320\,A\left(\sqrt{2}\,\mathrm{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\mathrm{Sec}[c+d\,x]}}\right]+\mathrm{ArcTan}\left[\frac{-2+\sqrt{1+\mathrm{Sec}[c+d\,x]}}{\sqrt{-1+\mathrm{Sec}[c+d\,x]}}\right]-\mathrm{ArcTan}\left[\frac{2+\sqrt{1+\mathrm{Sec}[c+d\,x]}}{\sqrt{-1+\mathrm{Sec}[c+d\,x]}}\right]\right)$$

$$\mathrm{Cot}[c+d\,x]\,\sqrt{-1+\mathrm{Sec}[c+d\,x]}\,+$$

$$\left.(43\,A+3\,C+(55\,A+7\,C)\,\mathrm{Cos}[c+d\,x]+8\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(39\,A+8\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{4\,a^{5/2}\,d}-\frac{(219\,A+43\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{(A+C)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{(19\,A+3\,C)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}-\frac{(63\,A+11\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{(31\,A+7\,C)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$\left(\frac{\left(-(219\,A+43\,C)\,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\sqrt{2}\,(39\,A+8\,C)\,\mathrm{ArcTan}\left[\frac{\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}{\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{1}{4}\,(73\,A+11\,C+(89\,A+15\,C)\,\mathrm{Cos}[c+d\,x]+10\,A\,\mathrm{Cos}[2\,(c+d\,x)]-2\,A\,\mathrm{Cos}[3\,(c+d\,x)])$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$-\frac{2\,(5\,A+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,(5\,A+3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d}+\frac{2\,C\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$-\frac{1}{5\,d}\text{Sec}[c+d\,x]^{3/2}\left(-5\,A-4\,C-(5\,A+2\,C)\,\text{Cos}[2\,(c+d\,x)]+\frac{1}{2}\,(5\,A+3\,C)\,e^{-2\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+i\,C\,\text{Sin}[2\,(c+d\,x)]\right)(i+\text{Tan}[c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}},\,x,\,3,\,0\right\}$$

$$\frac{2\,(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+\frac{2\,C\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d}-\frac{i\,e^{-i\,(c+d\,x)}\left(A-2\,C+A\,e^{2\,i\,(c+d\,x)}+2\,(-A+C)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\sqrt{\text{Sec}[c+d\,x]}}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,3,\,0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{2\,A\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{10\,d}\sqrt{\text{Sec}[c+d\,x]}\left(4\,i\,(3\,A+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(-2\,i\,(3\,A+5\,C)+A\,\text{Sin}[2\,(c+d\,x)])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,4,\,0\right\}$$

$$\frac{2\,(7\,A+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+\frac{2\,A\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,(7\,A+9\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{360\,d}\sqrt{\text{Sec}[c+d\,x]}\left(48\,i\,(7\,A+9\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(-24\,i\,(7\,A+9\,C)+(38\,A+36\,C)\,\text{Sin}[2\,(c+d\,x)]+5\,A\,\text{Sin}[4\,(c+d\,x)])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{2\,a\,(5\,A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{2\,a\,(7\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a\,(5\,A+3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,a\,(7\,A+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{4\,a\,C\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$a\left(-\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}2\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)-$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}6\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)+$$

$$\frac{4A\,\mathrm{Cos}[c+dx]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{20C\,\mathrm{Cos}[c+dx]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\left(\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4(5A+3C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}[c]}{5d}+\frac{4C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,\mathrm{Sin}[dx]}{7d}+\right.\right.$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(5C\,\mathrm{Sin}[c]+7C\,\mathrm{Sin}[dx])}{35d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(21C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+25C\,\mathrm{Sin}[dx])}{105d}+$$

$$\left.\left.\frac{4(7A+5C)\,\mathrm{Tan}[c]}{21d}\right)\right)\Big/\left((A+2C+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{3/2}\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])\left(A+C\,\mathrm{Sec}[c+dx]^2\right),x,7,0\right\}$$

$$-\frac{2a(5A+3C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{5d}+$$

$$\frac{2a(3A+C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3d}+\frac{2a(5A+3C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{5d}+$$

$$\frac{4aC\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{15d}+\frac{2C\,\mathrm{Sec}[c+dx]^{3/2}\,(a+a\,\mathrm{Sec}[c+dx])\,\mathrm{Sin}[c+dx]}{5d}$$

$$\left(4a\,e^{-i(c+dx)}\left(5(3A+C)\,e^{i(c+dx)}\left(1+e^{2i(c+dx)}\right)^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]-\right.\right.$$

$$i\left(-15A-9C-5C\,e^{i(c+dx)}-30A\,e^{2i(c+dx)}-24C\,e^{2i(c+dx)}-15A\,e^{4i(c+dx)}-3C\,e^{4i(c+dx)}+\right.$$

$$\left.\left.5C\,e^{5i(c+dx)}+3(5A+3C)\left(1+e^{2i(c+dx)}\right)^{5/2}\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\right)$$

$$\left.\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(15d\left(1+e^{2i(c+dx)}\right)^2(A+2C+A\,\mathrm{Cos}[2(c+dx)])\,\mathrm{Sec}[c+dx]^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+dx])\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{\sqrt{\mathrm{Sec}[c+dx]}},x,6,0\right\}$$

$$\frac{2\,a\,(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+\frac{2\,a\,(3\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{4\,a\,C\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,C\,\sqrt{\text{Sec}[c+d\,x]}\;(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d}\,a\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}\left(-3\,i\,A+3\,i\,C-3\,i\,A\,\text{Cos}[2\,(c+d\,x)]+3\,i\,C\,\text{Cos}[2\,(c+d\,x)]+2\,(3\,A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+3\,i\,(A-C)\,e^{-2\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+2\,C\,\text{Sin}[c+d\,x]+3\,C\,\text{Sin}[2\,(c+d\,x)]\right)(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,6,\,0\right\}$$

$$\frac{2\,a\,(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+\frac{2\,a\,(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{2\,a\,(A-3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d}\,a\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\left(-6\,i\,A\,\text{Cos}[c+d\,x]+6\,i\,C\,\text{Cos}[c+d\,x]+2\,(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+6\,i\,(A-C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+6\,C\,\text{Sin}[c+d\,x]+A\,\text{Sin}[2\,(c+d\,x)]\right)(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,6,\,0\right\}$$

$$\frac{2\,a\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{2\,a\,(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{4\,a\,A\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\,a\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\left(20\,(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+12\,i\,(3\,A+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(10\,A\,\text{Sin}[c+d\,x]+3\,(-2\,i\,(3\,A+5\,C)+A\,\text{Sin}[2\,(c+d\,x)]))\right)(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\,a\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,a\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{4\,a\,A\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\,a\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(40\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+$$

$$168\,i\,(3\,A+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+$$

$$2\,\text{Cos}[c+d\,x]\,(5\,(23\,A+28\,C)\,\text{Sin}[c+d\,x]+3\,(-28\,i\,(3\,A+5\,C)+14\,A\,\text{Sin}[2\,(c+d\,x)]+5\,A\,\text{Sin}[3\,(c+d\,x)]))\Big)$$

$$(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,a\,(7\,A+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{2\,a\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{4\,a\,A\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{2\,a\,(7\,A+9\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}$$

$$a\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(240\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+336\,i\,(7\,A+9\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}$$

$$\text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(-1176\,i\,A-1512\,i\,C+30\,(23\,A+28\,C)\,\text{Sin}[c+d\,x]+$$

$$14\,(19\,A+18\,C)\,\text{Sin}[2\,(c+d\,x)]+90\,A\,\text{Sin}[3\,(c+d\,x)]+35\,A\,\text{Sin}[4\,(c+d\,x)])\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$-\frac{16\,a^2\,(3\,A+2\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^2\,(7\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{16\,a^2\,(3\,A+2\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{4\,a^2\,(7\,A+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a^2\,(21\,A+19\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{8\,a\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d}$$

$$-\frac{1}{5\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])}4\sqrt{2}\;A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^4$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)-$$

$$\frac{1}{15\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])}8\sqrt{2}\;C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)+$$

$$\frac{2\,A\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}+$$

$$\frac{10\,C\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}+$$

$$\frac{1}{(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(3\,A+2\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]}{15\,d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{9\,d}+\right.$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(7\,C\,\mathrm{Sin}[c]+18\,C\,\mathrm{Sin}[d\,x])}{63\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(90\,C\,\mathrm{Sin}[c]+63\,A\,\mathrm{Sin}[d\,x]+112\,C\,\mathrm{Sin}[d\,x])}{315\,d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(63\,A\,\mathrm{Sin}[c]+112\,C\,\mathrm{Sin}[c]+210\,A\,\mathrm{Sin}[d\,x]+150\,C\,\mathrm{Sin}[d\,x])}{315\,d}+\frac{2\,(7\,A+5\,C)\,\mathrm{Tan}[c]}{21\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),x,8,0\right\}$$

$$-\frac{4\,a^2\,(5\,A+3\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{8\,a^2\,(7\,A+3\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{4\,a^2\,(5\,A+3\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{5\,d}+\frac{2\,a^2\,(35\,A+33\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{8\,a\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{7\,d}$$

$$-\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4$$

$$\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)-$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}3\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)+$$

$$\frac{4A\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{7/2}}+$$

$$\frac{4C\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{7d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{7/2}}+$$

$$\left(\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{2(5A+3C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}[c]}{5d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,\mathrm{Sin}[dx]}{7d}+\right.\right.$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2(5C\,\mathrm{Sin}[c]+14C\,\mathrm{Sin}[dx])}{35d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx](42C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+60C\,\mathrm{Sin}[dx])}{105d}+$$

$$\left.\left.\frac{(7A+12C)\,\mathrm{Tan}[c]}{21d}\right)\right)\Big/\left((A+2C+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{7/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{\sqrt{\mathrm{Sec}[c+dx]}},x,7,0\right\}$$

$$-\frac{16a^2C\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{5d}+$$

$$\frac{4a^2(3A+C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3d}+\frac{2a^2(15A+17C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15d}+$$

$$\frac{8aC\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])\,\mathrm{Sin}[c+dx]}{15d}+\frac{2C\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])^2\,\mathrm{Sin}[c+dx]}{5d}$$

$$\frac{1}{15\,(A+2C+A\,\mathrm{Cos}[2(c+dx)])}$$

$$a^2\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^4(1+\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{1}{d\left(-1+e^{2ic}\right)}2i\sqrt{2}\,e^{-i(c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\right.$$

$$\left(12C\left(1+e^{2i(c+dx)}\right)+12C\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]+\right.$$

$$5(3A+C)\,e^{i(c+dx)}\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2i(c+dx)}\right]\Bigg)+$$

$$\left.\frac{-3(-5A-16C+5A\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}[c]+30A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]+2C(10+3\,\mathrm{Sec}[c+dx])\,\mathrm{Tan}[c+dx]}{2d\,\mathrm{Sec}[c+dx]^{7/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^2\,(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+$$

$$\frac{8\,a^2\,(A+C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{2\,a^2\,(A-5\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{3\,d}-$$

$$\frac{2\,a\,(A-C)\,\sqrt{\text{Sec}[c+d\,x]}\ (a+a\,\text{Sec}[c+d\,x])\ \text{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(-12\,i\,A+12\,i\,C-12\,i\,A\,\text{Cos}[2\,(c+d\,x)]+12\,i\,C\,\text{Cos}[2\,(c+d\,x)]+16\,(A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+\right.$$

$$12\,i\,(A-C)\,e^{-2\,i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+A\,\text{Sin}[c+d\,x]+$$

$$\left.4\,C\,\text{Sin}[c+d\,x]+12\,C\,\text{Sin}[2\,(c+d\,x)]+A\,\text{Sin}[3\,(c+d\,x)]\right)\left(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{16\,a^2\,A\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^2\,(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{2\,a^2\,(7\,A-15\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{8\,a\,A\,(a+a\,\text{Sec}[c+d\,x])\ \text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\,a^2\,\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(-96\,i\,A\,\text{Cos}[c+d\,x]+96\,i\,A\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]-40\,i\,(A+3\,C)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\right.$$

$$\left.\text{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]+3\,A\,\text{Sin}[c+d\,x]+60\,C\,\text{Sin}[c+d\,x]+20\,A\,\text{Sin}[2\,(c+d\,x)]+3\,A\,\text{Sin}[3\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^2\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{8\,a^2\,(3\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a^2\,(33\,A+35\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{8\,a\,A\,(a+a\,\text{Sec}[c+d\,x])\ \text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(160\,(3\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$336\,i\,(3\,A+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$2\,\text{Cos}[c+d\,x]\,(-504\,i\,A-840\,i\,C+5\,(51\,A+28\,C)\,\text{Sin}[c+d\,x]+84\,A\,\text{Sin}[2\,(c+d\,x)]+15\,A\,\text{Sin}[3\,(c+d\,x)]]\Big)$$
$$(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\Big\}$$

$$\frac{16\,a^2\,(2\,A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{4\,a^2\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a^2\,(19\,A+21\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{4\,a^2\,(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{8\,a\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}$$
$$a^2\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(480\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+2688\,i\,(2\,A+3\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}$$
$$\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+2\,\text{Cos}[c+d\,x]\,(-2688\,i\,A-4032\,i\,C+60\,(23\,A+28\,C)\,\text{Sin}[c+d\,x]+$$
$$14\,(37\,A+18\,C)\,\text{Sin}[2\,(c+d\,x)]+180\,A\,\text{Sin}[3\,(c+d\,x)]+35\,A\,\text{Sin}[4\,(c+d\,x)]]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{11/2}},\,x,\,9,\,0\Big\}$$

$$\frac{4\,a^2\,(7\,A+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{8\,a^2\,(25\,A+33\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+$$
$$\frac{2\,a^2\,(89\,A+99\,C)\,\text{Sin}[c+d\,x]}{693\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{4\,a^2\,(7\,A+9\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{8\,a^2\,(25\,A+33\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$
$$\frac{8\,a\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\frac{1}{55\,440\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(1920\,(25\,A+33\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$14\,784\,i\,(7\,A+9\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+2\,\text{Cos}[c+d\,x]$$
$$(-51\,744\,i\,A-66\,528\,i\,C+30\,(941\,A+1122\,C)\,\text{Sin}[c+d\,x]+616\,(19\,A+18\,C)\,\text{Sin}[2\,(c+d\,x)]+4545\,A\,\text{Sin}[3\,(c+d\,x)]+$$
$$1980\,C\,\text{Sin}[3\,(c+d\,x)]+1540\,A\,\text{Sin}[4\,(c+d\,x)]+315\,A\,\text{Sin}[5\,(c+d\,x)]]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$-\frac{4\,a^3\,(7\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^3\,(143\,A+105\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+$$

$$\frac{4\,a^3\,(7\,A+5\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{5\,d}+\frac{4\,a^3\,(143\,A+105\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{8\,a^3\,(44\,A+35\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{385\,d}+\frac{2\,a^2\,(33\,A+35\,C)\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{4\,a\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{33\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d}$$

$$-\left(7\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \text{Cos}[c+d\,x]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$\left.(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\sqrt{2}\ d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\right)-\left(C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(\sqrt{2}\ d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{13\,A\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{21\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}+$$

$$\frac{5\,C\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{11\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}+$$

$$\frac{1}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{(7\,A+5\,C)\,\text{Cos}[d\,x]\,\text{Csc}[c]}{5\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,\text{Sin}[d\,x]}{22\,d}+\right.$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(3\,C\,\text{Sin}[c]+11\,C\,\text{Sin}[d\,x])}{66\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(77\,C\,\text{Sin}[c]+33\,A\,\text{Sin}[d\,x]+126\,C\,\text{Sin}[d\,x])}{462\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(165\,A\,\text{Sin}[c]+630\,C\,\text{Sin}[c]+693\,A\,\text{Sin}[d\,x]+770\,C\,\text{Sin}[d\,x])}{2310\,d}+$$

$$\left.\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(693\,A\,\text{Sin}[c]+770\,C\,\text{Sin}[c]+1430\,A\,\text{Sin}[d\,x]+1050\,C\,\text{Sin}[d\,x])}{2310\,d}+\frac{(143\,A+105\,C)\,\text{Tan}[c]}{231\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\ (a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$-\frac{4 a^3 (27 A+17 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+$$
$$\frac{4 a^3 (21 A+11 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+\frac{4 a^3 (27 A+17 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}+$$
$$\frac{8 a^3 (21 A+16 C) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{105 d}+\frac{2 a^2 (63 A+73 C) \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d}+$$
$$\frac{4 a C \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d}+\frac{2 C \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d}$$
$$-\left(9 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5 \text{Csc}[c]\right.$$
$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right) \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6$$
$$\left.(a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(5\sqrt{2}\ d (A+2 C+A \text{Cos}[2 c+2 d x])\right)-\left(17 C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\right.$$
$$\text{Cos}[c+d x]^5 \text{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$
$$\left.\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(15\sqrt{2}\ d (A+2 C+A \text{Cos}[2 c+2 d x])\right)+$$
$$\frac{A \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)}{d (A+2 C+A \text{Cos}[2 c+2 d x]) \text{Sec}[c+d x]^{9/2}}+$$
$$\frac{11 C \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)}{21 d (A+2 C+A \text{Cos}[2 c+2 d x]) \text{Sec}[c+d x]^{9/2}}+$$
$$\frac{1}{(A+2 C+A \text{Cos}[2 c+2 d x]) \text{Sec}[c+d x]^{9/2}}$$
$$\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right) \left(\frac{(27 A+17 C) \text{Cos}[d x] \text{Csc}[c]}{15 d}+\frac{C \text{Sec}[c] \text{Sec}[c+d x]^4 \text{Sin}[d x]}{18 d}+\right.$$
$$\frac{\text{Sec}[c] \text{Sec}[c+d x]^3 (7 C \text{Sin}[c]+27 C \text{Sin}[d x])}{126 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x]^2 (135 C \text{Sin}[c]+63 A \text{Sin}[d x]+238 C \text{Sin}[d x])}{630 d}+$$
$$\left.\frac{\text{Sec}[c] \text{Sec}[c+d x] (63 A \text{Sin}[c]+238 C \text{Sin}[c]+315 A \text{Sin}[d x]+330 C \text{Sin}[d x])}{630 d}+\frac{(21 A+22 C) \text{Tan}[c]}{42 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)}{\sqrt{\text{Sec}[c+d x]}}, x, 8, 0\right\}$$
$$-\frac{4 a^3 (5 A+7 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+$$
$$\frac{4 a^3 (35 A+13 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{21 d}+$$
$$\frac{8 a^3 (70 A+53 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{105 d}+\frac{2 a^2 (5 A+7 C) \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{15 d}+$$
$$\frac{12 a C \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{35 d}+\frac{2 C \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{7 d}$$

$$\frac{1}{420\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{7/2}\Big(630\,i\,A+882\,i\,C+840\,i\,A\,\text{Cos}[2\,(c+d\,x)]+1176\,i\,C\,\text{Cos}[2\,(c+d\,x)]+$$
$$210\,i\,A\,\text{Cos}[4\,(c+d\,x)]+294\,i\,C\,\text{Cos}[4\,(c+d\,x)]+80\,(35\,A+13\,C)\,\text{Cos}[c+d\,x]^{7/2}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]-$$
$$42\,i\,(5\,A+7\,C)\,e^{-4\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{7/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+70\,A\,\text{Sin}[c+d\,x]+$$
$$380\,C\,\text{Sin}[c+d\,x]+630\,A\,\text{Sin}[2\,(c+d\,x)]+840\,C\,\text{Sin}[2\,(c+d\,x)]+70\,A\,\text{Sin}[3\,(c+d\,x)]+$$
$$260\,C\,\text{Sin}[3\,(c+d\,x)]+315\,A\,\text{Sin}[4\,(c+d\,x)]+294\,C\,\text{Sin}[4\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,8,\,0\right\}$$

$$\frac{4\,a^3\,(5\,A-9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(5\,A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$
$$\frac{4\,a^3\,(5\,A+21\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}-\frac{2\,a^2\,(5\,A-9\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}-$$
$$\frac{2\,a\,(5\,A-3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{60\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{5/2}$$
$$\Big(-180\,i\,A\,\text{Cos}[c+d\,x]+324\,i\,C\,\text{Cos}[c+d\,x]-60\,i\,A\,\text{Cos}[3\,(c+d\,x)]+108\,i\,C\,\text{Cos}[3\,(c+d\,x)]+80\,(5\,A+3\,C)\,\text{Cos}[c+d\,x]^{5/2}$$
$$\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+12\,i\,(5\,A-9\,C)\,e^{-3\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$30\,A\,\text{Sin}[c+d\,x]+132\,C\,\text{Sin}[c+d\,x]+10\,A\,\text{Sin}[2\,(c+d\,x)]+60\,C\,\text{Sin}[2\,(c+d\,x)]+30\,A\,\text{Sin}[3\,(c+d\,x)]+$$
$$108\,C\,\text{Sin}[3\,(c+d\,x)]+5\,A\,\text{Sin}[4\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,8,\,0\right\}$$

$$\frac{4\,a^3\,(9\,A-5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-$$
$$\frac{8\,a^3\,(3\,A-10\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}-\frac{2\,a^2\,(9\,A-5\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+$$
$$\frac{4\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{60\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}$$
$$\Big(-216\,i\,A+120\,i\,C-216\,i\,A\,\text{Cos}[2\,(c+d\,x)]+120\,i\,C\,\text{Cos}[2\,(c+d\,x)]+80\,(3\,A+5\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$24\,i\,(9\,A-5\,C)\,e^{-2\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+30\,A\,\text{Sin}[c+d\,x]+40\,C\,\text{Sin}[c+d\,x]+$$
$$6\,A\,\text{Sin}[2\,(c+d\,x)]+180\,C\,\text{Sin}[2\,(c+d\,x)]+30\,A\,\text{Sin}[3\,(c+d\,x)]+3\,A\,\text{Sin}[4\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,8,\,0\right\}$$
$$\frac{4\,a^3\,(7\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(13\,A+35\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}-\frac{4\,a^3\,(41\,A-35\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+$$
$$\frac{2\,a^2\,(7\,A+5\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{12\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}$$
$$\Big(-2352\,i\,A\,\text{Cos}[c+d\,x]-1680\,i\,C\,\text{Cos}[c+d\,x]+80\,(13\,A+35\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$336\,i\,(7\,A+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+126\,A\,\text{Sin}[c+d\,x]+840\,C\,\text{Sin}[c+d\,x]+$$
$$550\,A\,\text{Sin}[2\,(c+d\,x)]+140\,C\,\text{Sin}[2\,(c+d\,x)]+126\,A\,\text{Sin}[3\,(c+d\,x)]+15\,A\,\text{Sin}[4\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\right\}$$
$$\frac{4\,a^3\,(17\,A+27\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{4\,a^3\,(11\,A+21\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{8\,a^3\,(16\,A+21\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$
$$\frac{2\,a^2\,(73\,A+63\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{315\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{4\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{21\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}$$
$$\Big(480\,(11\,A+21\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+672\,i\,(17\,A+27\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}$$
$$\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+2\,\text{Cos}[c+d\,x]\,(-5712\,i\,A-9072\,i\,C+30\,(97\,A+84\,C)\,\text{Sin}[c+d\,x]+$$
$$14\,(73\,A+18\,C)\,\text{Sin}[2\,(c+d\,x)]+270\,A\,\text{Sin}[3\,(c+d\,x)]+35\,A\,\text{Sin}[4\,(c+d\,x)])\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{11/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{4\,a^3\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^3\,(105\,A+143\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+\frac{8\,a^3\,(35\,A+44\,C)\,\text{Sin}[c+d\,x]}{385\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{4\,a^3\,(105\,A+143\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,(35\,A+33\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{231\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$
$$\frac{4\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{33\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\frac{1}{18\,480\,d}\,a^3\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(320\,(105\,A+143\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+$$
$$14\,784\,i\,(5\,A+7\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]$$
$$(-36\,960\,i\,A-51\,744\,i\,C+10\,(1953\,A+2354\,C)\,\text{Sin}[c+d\,x]+308\,(25\,A+18\,C)\,\text{Sin}[2\,(c+d\,x)]+2835\,A\,\text{Sin}[3\,(c+d\,x)]+$$
$$660\,C\,\text{Sin}[3\,(c+d\,x)]+770\,A\,\text{Sin}[4\,(c+d\,x)]+105\,A\,\text{Sin}[5\,(c+d\,x)])\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{13/2}},\ x,\ 10,\ 0\right\}$$

$$\frac{4\,a^3\,(175\,A+221\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{195\,d}+$$
$$\frac{4\,a^3\,(95\,A+121\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+\frac{40\,a^3\,(118\,A+143\,C)\,\text{Sin}[c+d\,x]}{9009\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$
$$\frac{4\,a^3\,(175\,A+221\,C)\,\text{Sin}[c+d\,x]}{585\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{4\,a^3\,(95\,A+121\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,(145\,A+143\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{1287\,d\,\text{Sec}[c+d\,x]^{7/2}}+$$
$$\frac{12\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{143\,d\,\text{Sec}[c+d\,x]^{9/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{13\,d\,\text{Sec}[c+d\,x]^{11/2}}$$

$$\left(35 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(39 \sqrt{2}\, d (A+2 C+A \operatorname{Cos}[2 c+2 d x])\right) + \left(17 C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(15 \sqrt{2}\, d (A+2 C+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\frac{95 A \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{231 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} +$$

$$\frac{11 C \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} +$$

$$\frac{1}{(A+2 C+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{(59375 A+77272 C+75025 A \operatorname{Cos}[2 c]+92456 C \operatorname{Cos}[2 c]) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{149760 d} + \frac{(4267 A+4664 C) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{14784 d} + \frac{(9005 A+7852 C) \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{74880 d} + \frac{(59 A+33 C) \operatorname{Cos}[4 d x] \operatorname{Sin}[4 c]}{1232 d} + \frac{(245 A+52 C) \operatorname{Cos}[5 d x] \operatorname{Sin}[5 c]}{14976 d} + \frac{3 A \operatorname{Cos}[6 d x] \operatorname{Sin}[6 c]}{704 d} + \frac{A \operatorname{Cos}[7 d x] \operatorname{Sin}[7 c]}{1664 d} + \frac{(75025 A+92456 C) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{74880 d} + \frac{(4267 A+4664 C) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{14784 d} + \frac{(9005 A+7852 C) \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{74880 d} + \frac{(59 A+33 C) \operatorname{Cos}[4 c] \operatorname{Sin}[4 d x]}{1232 d} + \frac{(245 A+52 C) \operatorname{Cos}[5 c] \operatorname{Sin}[5 d x]}{14976 d} + \frac{3 A \operatorname{Cos}[6 c] \operatorname{Sin}[6 d x]}{704 d} + \frac{A \operatorname{Cos}[7 c] \operatorname{Sin}[7 d x]}{1664 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]^{5/2} \left(A+C \operatorname{Sec}[c+d x]^2\right)}{a+a \operatorname{Sec}[c+d x]}, x, 8, 0\right\}$$

$$-\frac{3 (5 A+7 C) \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{5 a d} - \frac{(3 A+5 C) \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{3 a d} + \frac{3 (5 A+7 C) \sqrt{\operatorname{Sec}[c+d x]}\, \operatorname{Sin}[c+d x]}{5 a d} - \frac{(3 A+5 C) \operatorname{Sec}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{3 a d} + \frac{(5 A+7 C) \operatorname{Sec}[c+d x]^{5/2} \operatorname{Sin}[c+d x]}{5 a d} - \frac{(A+C) \operatorname{Sec}[c+d x]^{7/2} \operatorname{Sin}[c+d x]}{d (a+a \operatorname{Sec}[c+d x])}$$

$$-\left(6\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$(d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))-\left(42\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\right.$$

$$\left.\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$(5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))-$$

$$\frac{4A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])}-$$

$$\frac{20C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])}+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\left(\frac{6(5A+7C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{8C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,\mathrm{Sin}[dx]}{5d}+\right.$$

$$\left.\left.\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(3C\,\mathrm{Sin}[c]-5C\,\mathrm{Sin}[dx])}{15d}-\frac{4(2C+3A\,\mathrm{Cos}[c]+5C\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}\right)\right)\Big/$$

$$\left((A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{a+a\,\mathrm{Sec}[c+dx]},x,7,0\right\}$$

$$\frac{(A+3C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{ad}+$$

$$\frac{(3A+5C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3ad}-\frac{(A+3C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{ad}+$$

$$\frac{(3A+5C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{3ad}-\frac{(A+C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\frac{1}{6\,a\,d\,(1+\text{Sec}[c+d\,x])}\,e^{-i\,(2\,c+d\,x)}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^{5/2}\,\left(2\,(3\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right.$$
$$\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-i\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,(\text{Cos}[c+d\,x]+i\,\text{Sin}[c+d\,x])+$$
$$i\,\left(3\,(A+3\,C)\,e^{-2\,i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\left(1+e^{i\,(c+d\,x)}+e^{2\,i\,(c+d\,x)}+e^{3\,i\,(c+d\,x)}\right)\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.\left.2\,(3\,A+5\,C+6\,C\,\text{Cos}[c+d\,x]+(3\,A+7\,C)\,\text{Cos}[2\,(c+d\,x)]+2\,i\,C\,\text{Sin}[c+d\,x]-2\,i\,C\,\text{Sin}[2\,(c+d\,x)])\right)\right)$$
$$\left(\text{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}\,(3\,c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,6,\,0\right\}$$
$$-\frac{(A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+$$
$$\frac{(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,d}+$$
$$\frac{(A+3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{a\,d}-\frac{(A+C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}\,e^{-i\,(2\,c+d\,x)}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]^{3/2}$$
$$\left(2\,(A-C)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-\right.$$
$$i\,\left((A+3\,C)\,e^{-i\,(c+d\,x)}\,\left(1+e^{i\,(c+d\,x)}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]-\right.$$
$$\left.\left.2\,(C+(A+2\,C)\,\text{Cos}[c+d\,x]-i\,C\,\text{Sin}[c+d\,x])\right)\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+i\,\text{Sin}\left[\frac{1}{2}\,(3\,c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,5,\,0\right\}$$
$$\frac{(3\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-$$
$$\frac{(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{(A+C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(\frac{1}{d}6\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\right.\right.$$

$$\left.\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{1}{d}2\,\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{4\,\left((2\,A+C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]\right)\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}-$$

$$\left.\frac{4\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{4\,C\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}\right)\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,6,\,0\right\}$$

$$-\frac{(3\,A+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}+$$

$$\frac{(5\,A+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(5\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a\,d\,(1+\mathrm{Sec}[c+d\,x])}$$

$$e^{-i\,(2\,c+d\,x)}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\mathrm{Sec}[c+d\,x]^{3/2}\,\left(2\,(5\,A+3\,C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\right.$$

$$3\,i\,(3\,A+C)\,e^{-\frac{3}{2}\,i\,(c+d\,x)}\,\left(1+e^{i\,(c+d\,x)}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+2\,\mathrm{Cos}[c+d\,x]$$

$$\left.\left(3\,i\,(3\,A+C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+(5\,A+3\,C+2\,A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\,(\mathrm{Cos}[2\,c+d\,x]+i\,\mathrm{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,7,\,0\right\}$$

$$\frac{3\,(7\,A+5\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,a\,d}-$$

$$\frac{(5\,A+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(7\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{(5\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{15\,a\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{d}126\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{1}{d}90\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{100\,A\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{60\,C\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{1}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}2\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left.\left((83\,A+60\,C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(43\,A+30\,C)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+A\,\mathrm{Sin}[c]\left(7\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]-3\,\mathrm{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$\frac{(A+7\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,d}+$$

$$\frac{2\,(A+5\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a^2\,d}-\frac{(A+7\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{a^2\,d}+$$

$$\frac{2\,(A+5\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A+C)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(A+7\,C)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+\left(28\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\frac{16\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{80\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4\,(A+7C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}-\right.$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(3\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+11\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+$$

$$\left.\frac{16\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{3\,d}+\frac{16\,(C+A\,\mathrm{Cos}[c]+5\,C\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}+\frac{4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^2},x,7,0\right\}$$

$$-\frac{4\,C\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{a^2\,d}+\frac{(A-5C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3\,a^2\,d}+$$

$$\frac{4\,C\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{a^2\,d}-\frac{(A+C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{3\,d\,(a+a\,\mathrm{Sec}[c+dx])^2}+\frac{(A-5C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\frac{1}{3 a^2 (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (1+\operatorname{Sec}[c+d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]^4 \left(-\frac{1}{d \left(-1+e^{2 i c}\right)} 8 i \sqrt{2}\, e^{-i (c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \left(12 C \left(1+e^{2 i (c+d x)}\right)+12 C \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]+(A-5 C) e^{i (c+d x)} \left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{4}, \frac{1}{2}, \frac{5}{4}, -e^{2 i (c+d x)}\right]\right)+\frac{1}{d}\left(-(A-29 C) \operatorname{Cos}\left[\frac{1}{2} (c-d x)\right]+(A+19 C) \operatorname{Cos}\left[\frac{1}{2} (3 c+d x)\right]+A \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]+31 C \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]-A \operatorname{Cos}\left[\frac{1}{2} (5 c+3 d x)\right]+5 C \operatorname{Cos}\left[\frac{1}{2} (5 c+3 d x)\right]+12 C \operatorname{Cos}\left[\frac{1}{2} (3 c+5 d x)\right]\right) \operatorname{Csc}[c] \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^3 \sqrt{\operatorname{Sec}[c+d x]}\right) \left(A+C \operatorname{Sec}[c+d x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\operatorname{Sec}[c+d x]} \left(A+C \operatorname{Sec}[c+d x]^2\right)}{(a+a \operatorname{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$-\frac{(A-C) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{a^2 d}+\frac{2 (A+C) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{3 a^2 d}-\frac{(A+C) \operatorname{Sec}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{3 d (a+a \operatorname{Sec}[c+d x])^2}+\frac{(A-C) \sqrt{\operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{a d (a+a \operatorname{Sec}[c+d x])}$$

$$\frac{1}{3 a^2 (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (1+\operatorname{Sec}[c+d x])^2} \operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]^4 \left(-\frac{1}{d} 12 \sqrt{2}\, A\, e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)+\frac{12 \sqrt{2}\, C\, e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d}+\frac{\left((5 A-7 C) \operatorname{Cos}\left[\frac{1}{2} (c-d x)\right]+(4 A-2 C) \operatorname{Cos}\left[\frac{1}{2} (3 c+d x)\right]+3 (A-C) \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]\right) \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^3}{d \sqrt{\operatorname{Sec}[c+d x]}}+\frac{16 A \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}+\frac{16 C \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}\right) \left(A+C \operatorname{Sec}[c+d x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\ x,\ 6,\ 0\right\}$$

$$\frac{4\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,d}-\frac{(5\,A-C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a^2\,d}-$$

$$\frac{(A+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(5\,A-C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a^2\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\left(\frac{1}{d\,\left(-1+e^{2\,i\,c}\right)}8\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\left(12\,A\,\left(1+e^{2\,i\,(c+d\,x)}\right)+12\,A\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+\right.$$

$$\left.(5\,A-C)\,e^{i\,(c+d\,x)}\,\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\ \frac{1}{2},\ \frac{5}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)-\frac{1}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left((20\,A-C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(16\,A+C)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+3\,A\left(3\,\mathrm{Cos}\left[\frac{1}{2}\,(c+3\,d\,x)\right]+\mathrm{Cos}\left[\frac{1}{2}\,(5\,c+3\,d\,x)\right]\right)\right)$$

$$\left.\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\ x,\ 7,\ 0\right\}$$

$$-\frac{(7\,A+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,d}+$$

$$\frac{2\,(5\,A+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a^2\,d}+\frac{2\,(5\,A+C)\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(7\,A+C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3a^2(A+2C+A\operatorname{Cos}[2(c+dx)])(1+\operatorname{Sec}[c+dx])^2}\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^4\left(-\frac{1}{d}84\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\operatorname{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)-$$

$$\frac{12\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\operatorname{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}$$

$$+\frac{1}{2d\sqrt{\operatorname{Sec}[c+dx]}}\left(2(36A+5C)\operatorname{Cos}\left[\frac{1}{2}(c-dx)\right]+(54A+8C)\operatorname{Cos}\left[\frac{1}{2}(3c+dx)\right]+33A\operatorname{Cos}\left[\frac{1}{2}(c+3dx)\right]+\right.$$

$$\left.6C\operatorname{Cos}\left[\frac{1}{2}(c+3dx)\right]+9A\operatorname{Cos}\left[\frac{1}{2}(5c+3dx)\right]+A\operatorname{Cos}\left[\frac{1}{2}(3c+5dx)\right]-A\operatorname{Cos}\left[\frac{1}{2}(7c+5dx)\right]\right)$$

$$\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^3+\frac{80A\sqrt{\operatorname{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\operatorname{Sec}[c+dx]}}{d}+$$

$$\left.\frac{16C\sqrt{\operatorname{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\operatorname{Sec}[c+dx]}}{d}\right)\left(A+C\operatorname{Sec}[c+dx]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\operatorname{Sec}[c+dx]^2}{\operatorname{Sec}[c+dx]^{5/2}(a+a\operatorname{Sec}[c+dx])^2},x,8,0\right\}$$

$$\frac{4(14A+5C)\sqrt{\operatorname{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\operatorname{Sec}[c+dx]}}{5a^2d}-$$

$$\frac{5(3A+C)\sqrt{\operatorname{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\operatorname{Sec}[c+dx]}}{3a^2d}+\frac{4(14A+5C)\operatorname{Sin}[c+dx]}{15a^2d\operatorname{Sec}[c+dx]^{3/2}}-$$

$$\frac{5(3A+C)\operatorname{Sin}[c+dx]}{3a^2d\sqrt{\operatorname{Sec}[c+dx]}}-\frac{(A+C)\operatorname{Sin}[c+dx]}{3d\operatorname{Sec}[c+dx]^{3/2}(a+a\operatorname{Sec}[c+dx])^2}-\frac{(3A+C)\operatorname{Sin}[c+dx]}{ad\operatorname{Sec}[c+dx]^{3/2}(a+a\operatorname{Sec}[c+dx])}$$

$$\left(224\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+\left(16\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\frac{40\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}-$$

$$\frac{40\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(151A+60C+73A\,\mathrm{Cos}[2c]+20C\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\right.$$

$$\frac{16A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{3d}+\frac{4A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{5d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(13A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{4\,(73A+20C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{5d}-$$

$$\left.\frac{16A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{3d}+\frac{4A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{5d}+\frac{8\,(13A+7C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{7/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^3},x,9,0\right\}$$

$$\frac{(9A+119C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(A+11C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{2a^3d}-$$

$$\frac{(9A+119C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{10a^3d}+\frac{(A+11C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{2a^3d}-$$

$$\frac{(A+C)\,\mathrm{Sec}[c+dx]^{9/2}\,\mathrm{Sin}[c+dx]}{5d\,(a+a\,\mathrm{Sec}[c+dx])^3}-\frac{2C\,\mathrm{Sec}[c+dx]^{7/2}\,\mathrm{Sin}[c+dx]}{3ad\,(a+a\,\mathrm{Sec}[c+dx])^2}-\frac{(9A+119C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{30a^2d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\left(36\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+\left(476\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+$$

$$\frac{8A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{88C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{4(9A+119C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(3A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+13C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(3A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+29C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{32C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{3d}+$$

$$\left.\frac{8(4C+3A\,\mathrm{Cos}[c]+33C\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{8(3A+13C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{\left(a+a\,\mathrm{Sec}[c+dx]\right)^3},x,8,0\right\}$$

$$\frac{(A-49C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(A-13C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6a^3d}-\frac{(A-49C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{10a^3d}-$$

$$\frac{(A+C)\,\mathrm{Sec}[c+dx]^{7/2}\,\mathrm{Sin}[c+dx]}{5d\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+\frac{2(A-4C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{15ad\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}+\frac{(A-13C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{6a^2d\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-\left(196\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+$$

$$\frac{8A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}-$$

$$\frac{104C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4(A-49C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-13C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\right.$$

$$\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-4C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}-$$

$$\left.\frac{8(-A+13C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{16(A-4C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{\left(a+a\,\mathrm{Sec}[c+dx]\right)^3},x,7,0\right\}$$

$$-\frac{(A-9C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(A+3C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6a^3d}-\frac{(A+C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{5d\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{2(2A-3C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{15ad\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}+\frac{(A-9C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{10a^2d\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$-\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+\left(36\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+$$

$$\frac{8A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{8C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{4(A-9C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(7A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-3C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+$$

$$\left.\frac{8(A+3C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{8(7A-3C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+dx]}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{\left(a+a\,\mathrm{Sec}[c+dx]\right)^3},x,7,0\right\}$$

$$-\frac{(9A-C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(3A+C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6a^3d}-\frac{(A+C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{5d\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{2(3A-2C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15ad\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}+\frac{(3A+C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{6a^2d\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$-\left(36\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+\left(4\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+$$

$$\frac{8A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{8C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{4(9A-C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(9A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(6A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-$$

$$\left.\frac{8(9A-C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{16(6A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+dx]^2}{\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)^3},x,7,0\right\}$$

$$\frac{(49A-C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}-$$

$$\frac{(13A-C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{6a^3d}-\frac{(A+C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{5d\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}-$$

$$\frac{2(4A-C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15ad\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}-\frac{(13A-C)\sqrt{\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{6a^2d\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$\left(196\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-\left(4\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-$$

$$\frac{104\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4\left(39A-C+10A\,\mathrm{Cos}[2c]\right)\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\right.$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(23A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(17A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+$$

$$\left.\frac{32A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{d}+\frac{8\left(23A+C\right)\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{8\left(17A+7C\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4\left(A+C\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+dx]^2}{\mathrm{Sec}[c+dx]^{3/2}\left(a+a\,\mathrm{Sec}[c+dx]\right)^3},x,8,0\right\}$$

$$-\frac{\left(119A+9C\right)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{\left(11A+C\right)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{2a^3d}+\frac{\left(11A+C\right)\mathrm{Sin}[c+dx]}{2a^3d\sqrt{\mathrm{Sec}[c+dx]}}-$$

$$\frac{\left(A+C\right)\mathrm{Sin}[c+dx]}{5d\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}-\frac{2A\,\mathrm{Sin}[c+dx]}{3ad\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}-\frac{\left(119A+9C\right)\mathrm{Sin}[c+dx]}{30a^2d\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$-\left(476\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)-\left(36\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)+$$

$$\frac{88\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}+$$

$$\frac{8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Sec}[c+dx]^{3/2}$$

$$\left(A+C\,\text{Sec}[c+dx]^2\right)\left(\frac{4\left(89A+9C+30A\,\text{Cos}[2c]\right)\text{Cos}[dx]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{16A\,\text{Cos}[2dx]\,\text{Sin}[2c]}{3d}-\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(11A\,\text{Sin}\left[\frac{dx}{2}\right]+6C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(43A\,\text{Sin}\left[\frac{dx}{2}\right]+9C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-\frac{96A\,\text{Cos}[c]\,\text{Sin}[dx]}{d}+\frac{16A\,\text{Cos}[2c]\,\text{Sin}[2dx]}{3d}-$$

$$\left.\frac{8\left(43A+9C\right)\text{Tan}\left[\frac{c}{2}\right]}{3d}+\frac{16\left(11A+6C\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4\left(A+C\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+dx]^2}{\text{Sec}[c+dx]^{5/2}\left(a+a\,\text{Sec}[c+dx]\right)^3},x,9,0\right\}$$

$$\frac{7\left(33A+7C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{10a^3d}-$$

$$\frac{\left(63A+13C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{6a^3d}+\frac{7\left(33A+7C\right)\text{Sin}[c+dx]}{30a^3d\,\text{Sec}[c+dx]^{3/2}}-\frac{\left(63A+13C\right)\text{Sin}[c+dx]}{6a^3d\sqrt{\text{Sec}[c+dx]}}-$$

$$\frac{\left(A+C\right)\text{Sin}[c+dx]}{5d\,\text{Sec}[c+dx]^{3/2}\left(a+a\,\text{Sec}[c+dx]\right)^3}-\frac{2\left(6A+C\right)\text{Sin}[c+dx]}{15ad\,\text{Sec}[c+dx]^{3/2}\left(a+a\,\text{Sec}[c+dx]\right)^2}-\frac{\left(63A+13C\right)\text{Sin}[c+dx]}{10a^2d\,\text{Sec}[c+dx]^{3/2}\left(a+a\,\text{Sec}[c+dx]\right)}$$

$$\left(924\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)+\left(196\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left.\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)-$$

$$\frac{168\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)}{d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}-$$

$$\frac{104\,C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)}{3d\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)\left(-\frac{2\left(329A+78C+133A\,\text{Cos}[2c]+20C\,\text{Cos}[2c]\right)\text{Cos}[dx]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5d}-\right.$$

$$\frac{16A\,\text{Cos}[2dx]\,\text{Sin}[2c]}{d}+\frac{8A\,\text{Cos}[3dx]\,\text{Sin}[3c]}{5d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+$$

$$\frac{184\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(3A\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(27A\,\text{Sin}\left[\frac{dx}{2}\right]+17C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+$$

$$\frac{8\left(133A+20C\right)\text{Cos}[c]\,\text{Sin}[dx]}{5d}-\frac{16A\,\text{Cos}[2c]\,\text{Sin}[2dx]}{d}+\frac{8A\,\text{Cos}[3c]\,\text{Sin}[3dx]}{5d}+$$

$$\left.\frac{184\left(3A+C\right)\text{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{8\left(27A+17C\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4\left(A+C\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+dx]^{5/2}\sqrt{a+a\,\text{Sec}[c+dx]}\left(A+C\,\text{Sec}[c+dx]^2\right),x,6,0\right\}$$

$$\frac{a\left(48A+35C\right)\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{32\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{a\left(48A+35C\right)\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{64d\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{a\left(48A+35C\right)\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{96d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{a\,C\,\text{Sec}[c+dx]^{7/2}\,\text{Sin}[c+dx]}{24d\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{C\,\text{Sec}[c+dx]^{7/2}\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{4d}$$

$$\frac{1}{384\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Big((192\,A+332\,C+(432\,A+539\,C)\,\mathrm{Cos}[c+d\,x]+4\,(48\,A+35\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+144\,A\,\mathrm{Cos}[3\,(c+d\,x)]+105\,C\,\mathrm{Cos}[3\,(c+d\,x)])$$
$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-12\,(48\,A+35\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$
$$\frac{a\,(8\,A+5\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,(8\,A+5\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,C\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{24\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}$$
$$\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big((24\,A+31\,C+20\,C\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+5\,C)\,\mathrm{Cos}[2\,(c+d\,x)])$$
$$\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,(8\,A+5\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$
$$\frac{a\,(8\,A+3\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Bigg(\frac{C\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}}-2\,(8\,A+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{\sqrt{2}\ a\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a\,(2\,A-C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{d}$$

$$\left(2\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\ \left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{(C+2\,A\,\mathrm{Cos}[c+d\,x])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\ \mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Sec}[c+d\,x]^{3/2}}-C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]\right.$$

$$\left.\left.\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\ \sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right)\Big/$$

$$\left(d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{2\,\sqrt{2}\ a\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\ \left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{A\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1+\mathrm{Sec}[c+d\,x]}\ \left(-2\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}-\right.$$

$$12\,C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left.\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\ \sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{a^2\,(176\,A+133\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\ \mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{64\,\sqrt{2}\ d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(176\,A+133\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{128\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(176\,A+133\,C)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(80\,A+67\,C)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{240\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{3\,a\,C\,\mathrm{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{40\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{7680\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Big((10\,480\,A+13\,313\,C+12\,(880\,A+1273\,C)\,\mathrm{Cos}[c+d\,x]+4\,(3280\,A+3059\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+$$
$$3520\,A\,\mathrm{Cos}[3\,(c+d\,x)]+2660\,C\,\mathrm{Cos}[3\,(c+d\,x)]+2640\,A\,\mathrm{Cos}[4\,(c+d\,x)]+1995\,C\,\mathrm{Cos}[4\,(c+d\,x)])$$
$$\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-120\,(176\,A+133\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$
$$\frac{a^2\,(112\,A+75\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{32\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^2\,(112\,A+75\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(16\,A+13\,C)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{32\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,C\,\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{8\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d}$$
$$\frac{1}{128\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Big((64\,A+164\,C+7\,(48\,A+55\,C)\,\mathrm{Cos}[c+d\,x]+4\,(16\,A+25\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+112\,A\,\mathrm{Cos}[3\,(c+d\,x)]+75\,C\,\mathrm{Cos}[3\,(c+d\,x)])$$
$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-4\,(112\,A+75\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$
$$\frac{a^2\,(24\,A+11\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(24\,A+19\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$
$$\frac{1}{24\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}}$$
$$(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big((24\,A+49\,C+44\,C\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+11\,C)\,\mathrm{Cos}[2\,(c+d\,x)])$$
$$\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,(24\,A+11\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{a^2 (8 A+7 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{2 \sqrt{2} d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{a^2 (8 A-5 C) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{4 d \sqrt{a+a \text{Sec}[c+d x]}}+$$

$$\frac{3 a C \sqrt{\text{Sec}[c+d x]} \sqrt{a+a \text{Sec}[c+d x]} \text{Sin}[c+d x]}{4 d}+\frac{C \sqrt{\text{Sec}[c+d x]} (a+a \text{Sec}[c+d x])^{3/2} \text{Sin}[c+d x]}{2 d}$$

$$\frac{1}{2 d (A+2 C+A \text{Cos}[2 (c+d x)]) (1+\text{Sec}[c+d x])^{3/2}} (a (1+\text{Sec}[c+d x]))^{3/2} \left(A+C \text{Sec}[c+d x]^2\right)$$

$$\left(\frac{(4 A+2 C+7 C \text{Cos}[c+d x]+4 A \text{Cos}[2 (c+d x)]) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{\frac{1}{1+\text{Cos}[c+d x]}}}-(8 A+7 C) \text{Cos}[c+d x]^2 \text{Cot}[c+d x]\right.$$

$$\left.\left(\text{Log}[1+\text{Sec}[c+d x]]-\text{Log}\left[2 \left(\sqrt{\text{Sec}[c+d x]}+\text{Sec}[c+d x]^{3/2}+\sqrt{1+\text{Sec}[c+d x]} \sqrt{\text{Tan}[c+d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c+d x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^{3/2} \left(A+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{3/2}}, x, 5, 0\right\}$$

$$\frac{3 \sqrt{2} a^2 C \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{a^2 (8 A-3 C) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{3 d \sqrt{a+a \text{Sec}[c+d x]}}-$$

$$\frac{a (2 A-3 C) \sqrt{\text{Sec}[c+d x]} \sqrt{a+a \text{Sec}[c+d x]} \text{Sin}[c+d x]}{3 d}+\frac{2 A (a+a \text{Sec}[c+d x])^{3/2} \text{Sin}[c+d x]}{3 d \sqrt{\text{Sec}[c+d x]}}$$

$$\left(6 C \text{Cos}[c+d x]^3 \left(-\text{Log}[1+\text{Sec}[c+d x]]+\text{Log}\left[2 \left(\sqrt{\text{Sec}[c+d x]}+\text{Sec}[c+d x]^{3/2}+\sqrt{1+\text{Sec}[c+d x]} \sqrt{-1+\text{Sec}[c+d x]^2}\right)\right]\right)\right.$$

$$\left.(a (1+\text{Sec}[c+d x]))^{3/2} \sqrt{-1+\text{Sec}[c+d x]^2} \left(A+C \text{Sec}[c+d x]^2\right) \text{Sin}[c+d x]\right) \Big/$$

$$\left(d \left(1-\text{Cos}[c+d x]^2\right) (A+2 C+A \text{Cos}[2 c+2 d x]) (1+\text{Sec}[c+d x])^{3/2}\right)+$$

$$\left(\sqrt{(1+\text{Cos}[c+d x]) \text{Sec}[c+d x]} (a (1+\text{Sec}[c+d x]))^{3/2} \left(A+C \text{Sec}[c+d x]^2\right)\right.$$

$$\left(\frac{16 A \text{Cos}[d x] \text{Sin}[c]}{3 d}+\frac{2 A \text{Cos}[2 d x] \text{Sin}[2 c]}{3 d}-\frac{2 \text{Sec}\left[\frac{c}{2}\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right] \left(8 A \text{Sin}\left[\frac{d x}{2}\right]-3 C \text{Sin}\left[\frac{d x}{2}\right]\right)}{3 d}+\frac{16 A \text{Cos}[c] \text{Sin}[d x]}{3 d}+\right.$$

$$\left.\left.\frac{2 A \text{Cos}[2 c] \text{Sin}[2 d x]}{3 d}-\frac{2 (8 A-3 C) \text{Tan}\left[\frac{c}{2}\right]}{3 d}\right)\right) \Big/ \left((A+2 C+A \text{Cos}[2 c+2 d x]) \text{Sec}[c+d x]^{3/2} (1+\text{Sec}[c+d x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^{3/2} \left(A+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{5/2}}, x, 5, 0\right\}$$

$$\frac{2 \sqrt{2} a^2 C \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c+d x)\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+a \text{Sec}[c+d x]}}+$$

$$\frac{2 a^2 (4 A+5 C) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{5 d \sqrt{a+a \text{Sec}[c+d x]}}+\frac{2 a A \sqrt{a+a \text{Sec}[c+d x]} \text{Sin}[c+d x]}{5 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 A (a+a \text{Sec}[c+d x])^{3/2} \text{Sin}[c+d x]}{5 d \text{Sec}[c+d x]^{3/2}}$$

$$\left(4\,C\,\text{Cos}[c+d\,x]^3\left(-\text{Log}[1+\text{Sec}[c+d\,x]]+\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)\right.$$
$$\left.(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}[c+d\,x]\right)\Big/$$
$$\left(d\left(1-\text{Cos}[c+d\,x]^2\right)(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(1+\text{Sec}[c+d\,x])^{3/2}\right)+$$
$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{(17\,A+20\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{5\,d}+\right.\right.$$
$$\frac{4\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(4\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$
$$\left.\left.\frac{(17\,A+20\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{5\,d}+\frac{4\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{5\,d}-\frac{4\,(4\,A+5\,C)\,\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$
$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,(1+\text{Sec}[c+d\,x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$
$$\frac{a^3\,(1304\,A+1015\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{256\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(1304\,A+1015\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{512\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(1304\,A+1015\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{768\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(136\,A+109\,C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(24\,A+23\,C)\,\text{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{96\,d}+$$
$$\frac{a\,C\,\text{Sec}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{12\,d}+\frac{C\,\text{Sec}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{6\,d}$$
$$\frac{1}{12\,288\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])^{5/2}}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left((18\,720\,A+27\,412\,C+14\,(4056\,A+4591\,C)\,\text{Cos}[c+d\,x]+16\,(1496\,A+1711\,C)\,\text{Cos}[2\,(c+d\,x)]+25\,448\,A\,\text{Cos}[3\,(c+d\,x)]+21\,721\right.$$
$$C\,\text{Cos}[3\,(c+d\,x)]+5216\,A\,\text{Cos}[4\,(c+d\,x)]+4060\,C\,\text{Cos}[4\,(c+d\,x)]+3912\,A\,\text{Cos}[5\,(c+d\,x)]+3045\,C\,\text{Cos}[5\,(c+d\,x)])$$
$$\text{Sec}[c+d\,x]^{7/2}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-48\,(1304\,A+1015\,C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$
$$\left.\left(\text{Log}[1+\text{Sec}[c+d\,x]]-\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$
$$\frac{a^3\,(400\,A+283\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{64\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(400\,A+283\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{128\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(1040\,A+787\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{960\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(80\,A+79\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{240\,d}+$$
$$\frac{a\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{8\,d}+\frac{C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{7680\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{5/2}}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Big((20\,560\,A+24\,863\,C+12\,(1360\,A+2343\,C)\,\mathrm{Cos}[c+d\,x]+4\,(6640\,A+6509\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+$$
$$5440\,A\,\mathrm{Cos}[3\,(c+d\,x)]+5660\,C\,\mathrm{Cos}[3\,(c+d\,x)]+6000\,A\,\mathrm{Cos}[4\,(c+d\,x)]+4245\,C\,\mathrm{Cos}[4\,(c+d\,x)])$$
$$\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-120\,(400\,A+283\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$
$$\frac{a^3\,(304\,A+163\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{32\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(432\,A+299\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(16\,A+17\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{32\,d}+$$
$$\frac{5\,a\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{24\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{4\,d}$$

$$\frac{1}{384\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{5/2}}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Big((192\,A+844\,C+(1584\,A+2203\,C)\,\mathrm{Cos}[c+d\,x]+4\,(48\,A+163\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+528\,A\,\mathrm{Cos}[3\,(c+d\,x)]+489\,C\,\mathrm{Cos}[3\,(c+d\,x)])$$
$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-12\,(304\,A+163\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,6,\,0\right\}$$
$$\frac{5\,a^3\,(8\,A+5\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(24\,A-49\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(24\,A+31\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{24\,d}+$$
$$\frac{5\,a\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{12\,d}+\frac{C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\;(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{(-26\,C+24\,A\,\text{Cos}[c]-75\,C\,\text{Cos}[c])\,\text{Sin}\left[\frac{c}{2}\right]}{6\,d\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}\right]\right)}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{d}+\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-24\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+49\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{12\,d}+\right.$$

$$\left.\left.\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+\frac{2\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(4\,C\,\text{Sin}[c]+13\,C\,\text{Sin}[d\,x])}{6\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,(1+\text{Sec}[c+d\,x])^{5/2}\right)+\left(5\,(8\,A+5\,C)\,\text{Cos}[c+d\,x]^3\right.$$

$$\left(-\text{Log}[1+\text{Sec}[c+d\,x]]+\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)$$

$$\left.(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}[c+d\,x]\right)\Big/$$

$$\left(4\,d\left(1-\text{Cos}[c+d\,x]^2\right)(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(1+\text{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{a^3\,(8\,A+19\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\sqrt{2}\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^3\,(56\,A-27\,C)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{a^2\,(8\,A-21\,C)\sqrt{\text{Sec}[c+d\,x]}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,d}-$$

$$\frac{a\,(4\,A-3\,C)\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{6\,d}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])^{5/2}}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{(32\,A+6\,C+(6\,A+33\,C)\,\text{Cos}[c+d\,x]+32\,A\,\text{Cos}[2\,(c+d\,x)]+2\,A\,\text{Cos}[3\,(c+d\,x)])\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}}-\right.$$

$$3\,(8\,A+19\,C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$

$$\left.\left(\text{Log}[1+\text{Sec}[c+d\,x]]-\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{5\sqrt{2}\,a^3\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^3\,(64\,A+15\,C)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{a^2\,(16\,A-15\,C)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{2\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\left(10\,C\,\text{Cos}[c+d\,x]^3\left(-\text{Log}[1+\text{Sec}[c+d\,x]]+\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)\right.$$
$$\left.(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}[c+d\,x]\right)\Big/$$
$$\left(d\left(1-\text{Cos}[c+d\,x]^2\right)(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(1+\text{Sec}[c+d\,x])^{5/2}\right)+$$
$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\frac{(131\,A+60\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{15\,d}+$$
$$\frac{22\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{15\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{5\,d}-\frac{2\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(64\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+15\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$
$$\left.\frac{(131\,A+60\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{15\,d}+\frac{22\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{15\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{5\,d}-\frac{2\,(64\,A+15\,C)\,\text{Tan}\left[\frac{c}{2}\right]}{15\,d}\right)\Big)\Big/$$
$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,(1+\text{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a^3\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a^3\,(32\,A+49\,C)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(8\,A+7\,C)\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\left(4\,C\,\text{Cos}[c+d\,x]^3\left(-\text{Log}[1+\text{Sec}[c+d\,x]]+\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)\right.$$
$$\left.(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}[c+d\,x]\right)\Big/$$
$$\left(d\left(1-\text{Cos}[c+d\,x]^2\right)(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(1+\text{Sec}[c+d\,x])^{5/2}\right)+$$
$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\frac{(137\,A+196\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}+\frac{(31\,A+14\,C)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{21\,d}+\frac{3\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+$$
$$\frac{A\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{14\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(32\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+49\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{21\,d}+\frac{(137\,A+196\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}+$$
$$\left.\frac{(31\,A+14\,C)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{21\,d}+\frac{3\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}+\frac{A\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{14\,d}-\frac{4\,(32\,A+49\,C)\,\text{Tan}\left[\frac{c}{2}\right]}{21\,d}\right)\Big)\Big/$$
$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,(1+\text{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(A+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(8\,A+9\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A+7\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{C\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{96\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\Big(4\,(24\,A+37\,C-4\,C\,\text{Cos}[c+d\,x]+3\,(8\,A+7\,C)\,\text{Cos}[2\,(c+d\,x)])$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{1+\text{Cos}[c+d\,x]}\,3\,\text{Cos}[c+d\,x]^3\,\text{Cot}[c+d\,x]\,\Big(-(8\,A+9\,C)$$

$$\Big(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+d\,x]]+8\,\text{Log}\left[\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]+$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]-$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]\Big)+$$

$$\sqrt{2}\,(8\,A+7\,C)\,\Big(-\text{Log}\left[8\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]+$$

$$\text{Log}\Big[8\,\Big(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}$$

$$\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\Big)\Big]\Big)\Big)\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(A+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A+7\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{C\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{16\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{4\,C\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(5\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}}+\frac{1}{1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Cot}[c+d\,x]\,\Big((8\,A+7\,C)$$

$$\Big(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]+$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]-$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]\Big)+$$

$$\sqrt{2}\,C\,\Big(\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]-$$

$$\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]\Big)\Big)\,(1+\mathrm{Sec}[c+d\,x])\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$-\Big(C\,\mathrm{Cos}[c+d\,x]^4$$

$$\Big(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big]+$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big]-$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big]\Big)$$

$$(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\Big)\Big/$$

$$\Big(4\,d\,(1+\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\Big)+\Big((2\,A+C)\,\mathrm{Cos}[c+d\,x]^4$$

$$\Big(-\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big)\Big]+$$

$$\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big)\Big]\Big)$$

$$(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\Big)\Big/$$

$$\Big(2\,d\,(1+\mathrm{Cos}[c+d\,x])\,\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\Big)+$$

$$\frac{\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{2\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{2\,C\,\mathrm{Tan}\left[\frac{c}{2}\right]}{d}\right)}{(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$-\frac{1}{4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,A}{\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}}-8\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}-\right.$$

$$\Big(C\,\mathrm{Log}[256]-8\,C\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,C\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]+$$

$$\sqrt{2}\,C\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]+$$

$$\sqrt{2}\,A\,\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-$$

$$\sqrt{2}\,C\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]-\sqrt{2}\,A\,\mathrm{Log}\Big[$$

$$\left.8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\Big)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$-\frac{1}{6\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{16\,A\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Sec}[c+d\,x]^{5/2}}+3\,\sqrt{2}\,(A+C)\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\mathrm{Cot}[c+d\,x]\,\Big(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-$$

$$\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\Big)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$-\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,(13\,A+15\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,(29\,A+30\,C-2\,A\,\mathrm{Cos}[c+d\,x]+3\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{15\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right.$$

$$+\frac{1}{d}\sqrt{2}\,(A+C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{7/2}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,(31\,A+35\,C)\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,(43\,A+35\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\Bigg((A+C)\,\mathrm{Cos}[c+d\,x]^4\Big(-\mathrm{Log}\Big[8\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big)\Big]+\mathrm{Log}\Big[8\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\Big)\Big]\Big)(1+\mathrm{Sec}[c+d\,x])^{3/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\Bigg)\Big/\Bigg(d\,(1+\mathrm{Cos}[c+d\,x])\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\Bigg)+\Bigg(\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg(-\frac{2\,(193\,A+140\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{105\,d}+\frac{(113\,A+70\,C)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{105\,d}-\frac{6\,A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{14\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(46\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+35\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}-\frac{2\,(193\,A+140\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,d}+\frac{(113\,A+70\,C)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{105\,d}-\frac{6\,A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{14\,d}+\frac{8\,(46\,A+35\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}\Bigg)\Bigg)\Big/\Big((A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(A+9\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{3\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(A+3\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{4\,(2\,C+(A+3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{1}{1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Cot}[c+d\,x]$$

$$\Big(-6\,C\Big(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]+\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]-\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]\Big)+\sqrt{2}\,(A+3\,C)\Big(-\mathrm{Log}\Big[8\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]+\mathrm{Log}\Big[8\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]\Big)\Big)\,(1+\mathrm{Sec}[c+d\,x])\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(3\,A-5\,C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(A+C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{8\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,(1+\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,(A+C)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\text{Sec}[c+d\,x]^{3/2}}+\frac{1}{1+\text{Cos}[c+d\,x]}\,\text{Cos}[c+d\,x]^3\,\text{Cot}[c+d\,x]\right.$$

$$\left(4\,C\,\left(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+d\,x]]+8\,\text{Log}\left[\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]+\right.\right.$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]\right)+$$

$$\sqrt{2}\,(3\,A-C)\,\left(-\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]+\right.$$

$$\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\right.\right.$$

$$\left.\left.\left.\left.\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\right)\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$-\frac{(7\,A-C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(5\,A+C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,(1+\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,(5\,A+C+4\,A\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\text{Sec}[c+d\,x]^{3/2}}+\right.$$

$$\sqrt{2}\,(7\,A-C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$

$$\left(\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\text{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{(11\,A+3\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{(7\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(19\,A+3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{24\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,(17\,A+3\,C+12\,A\,\mathrm{Cos}[c+d\,x]-2\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}\right.$$

$$-3\,\sqrt{2}\,(11\,A+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{(15\,A+7\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{(9\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(13\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{(49\,A+25\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{10\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{40\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}2\,(47\,A+25\,C+(39\,A+20\,C)\,\mathrm{Cos}[c+d\,x]-2\,A\,\mathrm{Cos}[2\,(c+d\,x)]+A\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right.$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+5\,\sqrt{2}\,(15\,A+7\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{(3A+115C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{16a^2d\sqrt{a+a\,\text{Sec}[c+dx]}}-$$

$$\frac{5\sqrt{2}\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{a^2d\sqrt{a+a\,\text{Sec}[c+dx]}}-\frac{(A+C)\,\text{Sec}[c+dx]^{7/2}\,\text{Sin}[c+dx]}{4d\,(a+a\,\text{Sec}[c+dx])^{5/2}}+$$

$$\frac{(A-15C)\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{16ad\,(a+a\,\text{Sec}[c+dx])^{3/2}}+\frac{(3A+35C)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{16a^2d\sqrt{a+a\,\text{Sec}[c+dx]}}$$

$$\frac{1}{64d\,(A+2C+A\,\text{Cos}[2(c+dx)])\,(a(1+\text{Sec}[c+dx]))^{5/2}}(1+\text{Sec}[c+dx])^{5/2}\left(A+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(\frac{(3A+67C+2(7A+55C)\,\text{Cos}[c+dx]+(3A+35C)\,\text{Cos}[2(c+dx)])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^4\sqrt{1+\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{\text{Sec}[c+dx]^{3/2}}+\right.$$

$$\frac{1}{1+\text{Cos}[c+dx]}\text{Cos}[c+dx]^3\,\text{Cot}[c+dx]$$

$$\left(-80C\left(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+dx]]+8\,\text{Log}\left[\sqrt{\text{Sec}[c+dx]}+\text{Sec}[c+dx]^{3/2}+\sqrt{1+\text{Sec}[c+dx]}\sqrt{\text{Tan}[c+dx]^2}\right]+\right.\right.$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+dx]+3\,\text{Sec}[c+dx]^2-2\sqrt{2}\sqrt{\text{Sec}[c+dx]}\sqrt{1+\text{Sec}[c+dx]}\sqrt{\text{Tan}[c+dx]^2}\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+dx]+3\,\text{Sec}[c+dx]^2+2\sqrt{2}\sqrt{\text{Sec}[c+dx]}\sqrt{1+\text{Sec}[c+dx]}\sqrt{\text{Tan}[c+dx]^2}\right]\right)+\sqrt{2}$$

$$(3A+35C)\left(-\text{Log}\left[8\left(-1+2\,\text{Sec}[c+dx]+3\,\text{Sec}[c+dx]^2-2\sqrt{2}\sqrt{\text{Sec}[c+dx]}\sqrt{1+\text{Sec}[c+dx]}\sqrt{\text{Tan}[c+dx]^2}\right)\right]+\right.$$

$$\text{Log}\left[8\left(-1+2\,\text{Sec}[c+dx]+3\,\text{Sec}[c+dx]^2+2\sqrt{2}\sqrt{\text{Sec}[c+dx]}\right.\right.$$

$$\left.\left.\left.\left.\sqrt{1+\text{Sec}[c+dx]}\sqrt{\text{Tan}[c+dx]^2}\right)\right]\right)\right)(1+\text{Sec}[c+dx])\sqrt{\text{Tan}[c+dx]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)}{(a+a\,\text{Sec}[c+dx])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(5A-43C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{16a^2d\sqrt{a+a\,\text{Sec}[c+dx]}}+$$

$$\frac{2\sqrt{2}\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\text{Sec}[c+dx]}}{a^2d\sqrt{a+a\,\text{Sec}[c+dx]}}-$$

$$\frac{(A+C)\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{4d\,(a+a\,\text{Sec}[c+dx])^{5/2}}+\frac{(5A-11C)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{16ad\,(a+a\,\text{Sec}[c+dx])^{3/2}}$$

$$\frac{1}{64\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{(A-15\,C+(5\,A-11\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}+\right.$$

$$\frac{1}{1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Cot}[c+d\,x]$$

$$\left(32\,C\,\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]+\right.\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]\right)+\sqrt{2}$$

$$(5\,A-11\,C)\,\left(-\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]+\right.$$

$$\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\right.\right.$$

$$\left.\left.\left.\left.\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\right)\,(1+\mathrm{Sec}[c+d\,x])\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{(19\,A+3\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-\frac{(9\,A-7\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{64\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{(9\,A-7\,C+(13\,A-3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}-\right.$$

$$\sqrt{2}\,(19\,A+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 5,\ 0\right\}$$

$$-\frac{5\,(15\,A-C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-\frac{(13\,A-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(49\,A+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{64\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}(65\,A+C+5\,(17\,A+C)\,\mathrm{Cos}[c+d\,x]+16\,A\,\mathrm{Cos}[2\,(c+d\,x)])\right.$$
$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\sqrt{1+\mathrm{Sec}[c+d\,x]}\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+5\sqrt{2}\,(15\,A-C)\,\mathrm{Cos}[c+d\,x]^2$$
$$\mathrm{Cot}[c+d\,x]\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$
$$\frac{(163\,A+19\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$
$$\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-\frac{(17\,A+C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$
$$\frac{5\,(19\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{48\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(299\,A+27\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$
$$\frac{1}{192\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}(379\,A+27\,C+(479\,A+39\,C)\,\mathrm{Cos}[c+d\,x]+80\,A\,\mathrm{Cos}[2\,(c+d\,x)]-8\,A\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\right.$$
$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)-3\sqrt{2}\,(163\,A+19\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$
$$-\frac{(283\,A+75\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$
$$\frac{(21\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(157\,A+45\,C)\,\mathrm{Sin}[c+d\,x]}{80\,a^2\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$
$$\frac{(787\,A+195\,C)\,\mathrm{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{(2671\,A+735\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{960\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}\right.$$
$$(3491\,A+975\,C+5\,(887\,A+255\,C)\,\mathrm{Cos}[c+d\,x]+16\,(52\,A+15\,C)\,\mathrm{Cos}[2\,(c+d\,x)]-40\,A\,\mathrm{Cos}[3\,(c+d\,x)]+12\,A\,\mathrm{Cos}[4\,(c+d\,x)])$$
$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+15\,\sqrt{2}\,(283\,A+75\,C)\,\mathrm{Cos}[c+d\,x]^2$$
$$\mathrm{Cot}[c+d\,x]\,\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{9/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,3,\,0\right\}$$

$$\frac{2\,(7\,A+9\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{2\,(7\,A+9\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{45\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{9\,d}$$
$$\frac{1}{30\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$
$$\mathrm{Cos}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}4\,\sqrt{2}\,(7\,A+9\,C)\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Csc}[c]\right.$$
$$\left(3\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+e^{2\,i\,d\,x}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$
$$\left.\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]\,(48\,(7\,A+9\,C)\,\mathrm{Cos}[c]-4\,(19\,A+18\,C+5\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sin}[c]\,\mathrm{Sin}[2\,(c+d\,x)])}{6\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{7/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,3,\,0\right\}$$

$$\frac{2\,(5\,A+7\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,(5\,A+7\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{7\,d}$$
$$\left(2\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(C+A\,\mathrm{Cos}[c+d\,x]^2\right)\left(-2\,(5\,A+7\,C)\,\sqrt{\mathrm{Cos}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2}\right.\right.$$
$$\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]+$$
$$\left.\left.(13\,A+14\,C+3\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{\mathrm{Csc}[c]^2}\,\mathrm{Sin}[c+d\,x]\right)\right)\Big/\left(21\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{\mathrm{Csc}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,2,\,0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{15\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\sqrt{2}\,e^{-2\,i\,d\,x}\,\text{Csc}[c]\,(\text{Cos}[d\,x]+i\,\text{Sin}[d\,x])\,\Big(3\,(3\,A+5\,C)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\Big]+e^{i\,d\,x}\,\Big((3\,A+5\,C)\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\Big]+3\,\text{Cos}[c+d\,x]\,(-2\,(3\,A+5\,C)\,\text{Cos}[c]+A\,\text{Sin}[c]\,\text{Sin}[2\,(c+d\,x)])\Big)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,2,\,0\right\}$$

$$\frac{2\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\Big(4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(C+A\,\text{Cos}[c+d\,x]^2\right)\Big(-(A+3\,C)\,\sqrt{\text{Cos}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2}\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]+A\,\sqrt{\text{Csc}[c]^2}\,\text{Sin}[c+d\,x]\Big)\Big)\Big/\Big(3\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{\text{Csc}[c]^2}\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,2,\,0\right\}$$

$$\frac{2\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\sqrt{2}\,e^{-i\,d\,x}\,\text{Csc}[c]\,\Big(-3\,((A-2\,C)\,\text{Cos}[d\,x]+A\,\text{Cos}[2\,c+d\,x])+3\,(A-C)\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\Big]+(A-C)\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\Big]\Big)\,(\text{Cos}[d\,x]+i\,\text{Sin}[d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,2,\,0\right\}$$

$$\frac{2\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$-\frac{1}{6\,\sqrt{2}\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{\text{Csc}[c]^2}}\text{Csc}[c]\,\Big(\sqrt{2}\,C\,\Big(-1-\text{Cos}[2\,d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{\text{Csc}[c]^2}+\text{Cos}[2\,c+2\,d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{\text{Csc}[c]^2}+\text{Cos}[2\,c+\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{\text{Csc}[c]^2}\Big)+4\,(3\,A+C)\,\text{Cos}[c+d\,x]^2\,\sqrt{1+\text{Cos}[2\,d\,x-2\,\text{ArcTan}[\text{Cot}[c]]]}\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\Big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 3,\ 0\right\}$$

$$-\frac{2\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,(5\,A+3\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{10\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}$$

$$\text{Cos}[c+d\,x]^2\left(\frac{2\,(2\,(5\,A+4\,C)\,\text{Cos}[d\,x]+(5\,A+C)\,\text{Cos}[2\,c+d\,x]+(5\,A+3\,C)\,\text{Cos}[2\,c+3\,d\,x])\,\text{Csc}[c]}{d\,\text{Cos}[c+d\,x]^{5/2}}-\right.$$

$$\frac{1}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}4\,\sqrt{2}\,(5\,A+3\,C)\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Csc}[c]$$

$$\left.\left(3\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+e^{2\,i\,d\,x}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\ \frac{3}{4},\ \frac{7}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)\right)\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{2\,(7\,A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{7/2}}+\frac{2\,(7\,A+5\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\left(2\,\left(C+A\,\text{Cos}[c+d\,x]^2\right)\left(-2\,(7\,A+5\,C)\,\text{Cos}[c+d\,x]^4\,\sqrt{\text{Cos}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2}\right.\right.$$

$$\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]+$$

$$\left.\left.(7\,A+11\,C+(7\,A+5\,C)\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{\text{Csc}[c]^2}\,\text{Sin}[c+d\,x]\right)\right)\Big/$$

$$\left(21\,d\,\text{Cos}[c+d\,x]^{7/2}\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{\text{Csc}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{2\,a\,(7\,A+9\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{15\,d}+\frac{2\,a\,(5\,A+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{2\,a\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{2\,a\,(7\,A+9\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+\frac{4\,a\,A\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9\,d}$$

$$a\left(\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\right.$$

$$\mathrm{Cos}[c+dx]^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{4\,(7A+9C)\,\mathrm{Cot}[c]}{15d}+\frac{(23A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{21d}+\frac{(19A+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{45d}+\right.$$

$$\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{7d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{18d}+\frac{(23A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{21d}+\frac{(19A+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{45d}+$$

$$\left.\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{7d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{18d}\right)-\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$20A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,4C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{15d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,14A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,6C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{2\,a\,(3\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{2\,a\,(5\,A+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+$$

$$\frac{2\,a\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{4\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$a\left(\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\right.$$

$$\mathrm{Cos}[c+dx]^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{4\,(3A+5C)\,\mathrm{Cot}[c]}{5d}+\frac{(23A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{21d}+\frac{2A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5d}+\right.$$

$$\left.\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{7d}+\frac{(23A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{21d}+\frac{2A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5d}+\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{7d}\right)-$$

$$\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,20A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,4C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,6A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,2C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{2\,a\,(3\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{2\,a\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+\frac{4\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$a\left(\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(3\,A+5\,C)\,\text{Cot}[c]}{5\,d}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}-\right.$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}\,4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}\,4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,6\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\,a\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,a\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-$$

$$\frac{2\,a\,(A-3\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\left(a+a\,\text{Sec}[c+d\,x]\right)\text{Sin}[c+d\,x]}{3\,d}$$

$$a\left(\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A-2\,C+A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{d}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}\right)}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}-\right.$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\;(a+a\,\text{Sec}[c+d\,x])\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{2\,a\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{d}+\frac{2\,a\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+\frac{4\,a\,C\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$a\left(\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A-2\,C+A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{d}+\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(C\,\text{Sin}[c]+3\,C\,\text{Sin}[d\,x])}{3\,d}\right)}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}-\right.$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}\,4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}\,4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,a\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,a\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{4\,a\,C\,\text{Sin}[c+d\,x]}{15\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+3\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$a\left(\frac{1}{A+2C+A\cos[2c+2dx]}\cos[c+dx]^{5/2}\left(A+C\sec[c+dx]^2\right)\left(\frac{8(5A+3C)\csc[2c]}{5d}+\frac{4C\sec[c]\sec[c+dx]^3\sin[dx]}{5d}+\frac{4\sec[c]\sec[c+dx]^2(3C\sin[c]+5C\sin[dx])}{15d}+\frac{4\sec[c]\sec[c+dx](5C\sin[c]+15A\sin[dx]+9C\sin[dx])}{15d}\right)-\frac{1}{d(A+2C+A\cos[2c+2dx])\sqrt{1+\cot[c]^2}}4A\cos[c+dx]^2\csc[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[dx-\arctan[\cot[c]]]^2\right]\left(A+C\sec[c+dx]^2\right)\sec[dx-\arctan[\cot[c]]]\sqrt{1-\sin[dx-\arctan[\cot[c]]]}\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[dx-\arctan[\cot[c]]]}\sqrt{1+\sin[dx-\arctan[\cot[c]]]}-\frac{1}{3d(A+2C+A\cos[2c+2dx])\sqrt{1+\cot[c]^2}}4C\cos[c+dx]^2\csc[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[dx-\arctan[\cot[c]]]^2\right]\left(A+C\sec[c+dx]^2\right)\sec[dx-\arctan[\cot[c]]]\sqrt{1-\sin[dx-\arctan[\cot[c]]]}\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[dx-\arctan[\cot[c]]]}\sqrt{1+\sin[dx-\arctan[\cot[c]]]}+\frac{1}{d(A+2C+A\cos[2c+2dx])}2A\cos[c+dx]^2\csc[c]\left(A+C\sec[c+dx]^2\right)\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[dx+\arctan[\tan[c]]]^2\right]\sin[dx+\arctan[\tan[c]]]\tan[c]\right)\Big/\left(\sqrt{1-\cos[dx+\arctan[\tan[c]]]}\sqrt{1+\cos[dx+\arctan[\tan[c]]]}\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[dx+\arctan[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)+\frac{1}{5d(A+2C+A\cos[2c+2dx])}6C\cos[c+dx]^2\csc[c]\left(A+C\sec[c+dx]^2\right)\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[dx+\arctan[\tan[c]]]^2\right]\sin[dx+\arctan[\tan[c]]]\tan[c]\right)\Big/\left(\sqrt{1-\cos[dx+\arctan[\tan[c]]]}\sqrt{1+\cos[dx+\arctan[\tan[c]]]}\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[dx+\arctan[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,a\,(5\,A+3\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{2\,a\,(7\,A+5\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{4\,a\,C\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{2\,a\,(7\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{21\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+3\,C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$a\left(\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{8\,(5A+3C)\,\mathrm{Csc}[2c]}{5d}+\frac{4C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{7d}+\right.\right.$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(5C\,\mathrm{Sin}[c]+7C\,\mathrm{Sin}[dx])}{35d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(21C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+25C\,\mathrm{Sin}[dx])}{105d}+$$

$$\left.\left.\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(35A\,\mathrm{Sin}[c]+25C\,\mathrm{Sin}[c]+105A\,\mathrm{Sin}[dx]+63C\,\mathrm{Sin}[dx])}{105d}\right)\right)-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}4A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\right.$$

$$\left.\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}20C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}+$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}2A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}6C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{4\,a^2\,(7\,A+9\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{15\,d}+\frac{8\,a^2\,(25\,A+33\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{231\,d}+\frac{8\,a^2\,(25\,A+33\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+\frac{4\,a^2\,(7\,A+9\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+\frac{2\,a^2\,(89\,A+99\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{693\,d}+\frac{8\,a\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{2\,(7A+9C)\,\mathrm{Cot}[c]}{15\,d}+\frac{(941A+1122C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{1848\,d}+\frac{(19A+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{90\,d}+\right.$$

$$\frac{(101A+44C)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{1232\,d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{36\,d}+\frac{A\,\mathrm{Cos}[5dx]\,\mathrm{Sin}[5c]}{176\,d}+\frac{(941A+1122C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{1848\,d}+$$

$$\left.\frac{(19A+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{90\,d}+\frac{(101A+44C)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{1232\,d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{36\,d}+\frac{A\,\mathrm{Cos}[5c]\,\mathrm{Sin}[5dx]}{176\,d}\right)-$$

$$\frac{1}{231\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,100\,A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\frac{1}{7\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{15\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,7\,A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,3\,C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{16\,a^2\,(2\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{15\,d}+\frac{4\,a^2\,(5\,A+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{4\,a^2\,(5\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a^2\,(19\,A+21\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{8\,a\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{8\,(2A+3C)\,\mathrm{Cot}[c]}{15\,d}+\frac{(23A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{42\,d}+\frac{(37A+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{180\,d}+\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{14\,d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{72\,d}+\frac{(23A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{42\,d}+\frac{(37A+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{180\,d}+\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{14\,d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{72\,d}\right)-$$

$$\frac{1}{21\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}10\,A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\frac{1}{3\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$2\,C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{15\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}8\,A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}4\,C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{4\,a^2\,(3\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{8\,a^2\,(3\,A+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{2\,a^2\,(33\,A+35\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{8\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{2(3A+5C)\,\mathrm{Cot}[c]}{5d}+\frac{(51A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{84d}+\frac{A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5d}+\right.$$

$$\left.\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{28d}+\frac{(51A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{84d}+\frac{A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5d}+\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{28d}\right)-$$

$$\frac{1}{7d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}4A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}3A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\}$$

$$\frac{16\,a^2\,A\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^2\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}-\frac{2\,a^2\,(7\,A-15\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{8\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{(8\,A-5\,C+8\,A\,\text{Cos}[2\,c]+5\,C\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{5\,d}+\frac{2\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{10\,d}+\frac{2\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\right.$$

$$\left.\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}+\frac{A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{10\,d}\right)-\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\right.$$

$$\left.\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,4\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\}$$

$$\frac{4\,a^2\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{d}+\frac{8\,a^2\,(A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}-\frac{2\,a^2\,(A-5\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{2\,a\,(A-C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{A+2C+A\cos[2c+2dx]}\cos[c+dx]^{9/2}\sec\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\sec[c+dx])^2\left(A+C\sec[c+dx]^2\right)$$
$$\left(-\frac{2(A-2C+A\cos[2c])\csc[2c]}{d}+\frac{A\cos[dx]\sin[c]}{3d}+\frac{A\cos[c]\sin[dx]}{3d}+\frac{C\sec[c]\sec[c+dx]^2\sin[dx]}{3d}+\right.$$
$$\left.\frac{\sec[c]\sec[c+dx](C\sin[c]+6C\sin[dx])}{3d}\right)-\frac{1}{3d(A+2C+A\cos[2c+2dx])\sqrt{1+\cot[c]^2}}$$
$$4A\cos[c+dx]^4\csc[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[dx-\arctan[\cot[c]]]^2\right]\sec\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$
$$(a+a\sec[c+dx])^2\left(A+C\sec[c+dx]^2\right)\sec[dx-\arctan[\cot[c]]]\sqrt{1-\sin[dx-\arctan[\cot[c]]]}$$
$$\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[dx-\arctan[\cot[c]]]}\sqrt{1+\sin[dx-\arctan[\cot[c]]]}-$$
$$\frac{1}{3d(A+2C+A\cos[2c+2dx])\sqrt{1+\cot[c]^2}}4C\cos[c+dx]^4\csc[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\right.$$
$$\left.\sin[dx-\arctan[\cot[c]]]^2\right]\sec\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\sec[c+dx])^2\left(A+C\sec[c+dx]^2\right)\sec[dx-\arctan[\cot[c]]]$$
$$\sqrt{1-\sin[dx-\arctan[\cot[c]]]}\sqrt{-\sqrt{1+\cot[c]^2}\sin[c]\sin[dx-\arctan[\cot[c]]]}\sqrt{1+\sin[dx-\arctan[\cot[c]]]}-$$
$$\frac{1}{d(A+2C+A\cos[2c+2dx])}A\cos[c+dx]^4\csc[c]\sec\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\sec[c+dx])^2\left(A+C\sec[c+dx]^2\right)$$
$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[dx+\arctan[\tan[c]]]^2\right]\sin[dx+\arctan[\tan[c]]]\tan[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\cos[dx+\arctan[\tan[c]]]}\sqrt{1+\cos[dx+\arctan[\tan[c]]]}\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[dx+\arctan[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)+$$
$$\frac{1}{d(A+2C+A\cos[2c+2dx])}C\cos[c+dx]^4\csc[c]\sec\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\sec[c+dx])^2\left(A+C\sec[c+dx]^2\right)$$
$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[dx+\arctan[\tan[c]]]^2\right]\sin[dx+\arctan[\tan[c]]]\tan[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\cos[dx+\arctan[\tan[c]]]}\sqrt{1+\cos[dx+\arctan[\tan[c]]]}\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\tan[c]^2}\right)-\frac{\frac{\sin[dx+\arctan[\tan[c]]]\tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2\cos[c]^2\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c]\cos[dx+\arctan[\tan[c]]]\sqrt{1+\tan[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$-\frac{16\,a^2\,C\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^2\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{3\,d}+$$

$$\frac{2\,a^2\,(15\,A+17\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{8\,a\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{(-5\,A-16\,C+5\,A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{5\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,C\,\text{Sin}[c]+10\,C\,\text{Sin}[d\,x])}{15\,d}+\right.$$

$$\left.\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(10\,C\,\text{Sin}[c]+15\,A\,\text{Sin}[d\,x]+24\,C\,\text{Sin}[d\,x])}{15\,d}\right)-\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\right.$$

$$\left.\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,4\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{4\,a^2\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{5\,d}+\frac{8\,a^2\,(7\,A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{21\,d}+\frac{2\,a^2\,(35\,A+33\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{4\,a^2\,(5\,A+3\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{8\,a\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4(5A+3C)\,\mathrm{Csc}[2c]}{5d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{7d}+\right.$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(5C\,\mathrm{Sin}[c]+14C\,\mathrm{Sin}[dx])}{35d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(42C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+60C\,\mathrm{Sin}[dx])}{105d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(35A\,\mathrm{Sin}[c]+60C\,\mathrm{Sin}[c]+210A\,\mathrm{Sin}[dx]+126C\,\mathrm{Sin}[dx])}{105d}\right)-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}4A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{7d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}4C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}+$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}3C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},x,8,0\right\}$$

$$-\frac{16\,a^2\,(3\,A+2\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]}{15\,d}+\frac{4\,a^2\,(7\,A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{21\,d}+\frac{2\,a^2\,(21\,A+19\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^2\,(7\,A+5\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{16\,a^2\,(3\,A+2\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{8\,a\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{16\,(3\,A+2\,C)\,\text{Csc}[2\,c]}{15\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,\text{Sin}[d\,x]}{9\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(7\,C\,\text{Sin}[c]+18\,C\,\text{Sin}[d\,x])}{63\,d}+\frac{2\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(35\,A\,\text{Sin}[c]+25\,C\,\text{Sin}[c]+84\,A\,\text{Sin}[d\,x]+56\,C\,\text{Sin}[d\,x])}{105\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(90\,C\,\text{Sin}[c]+63\,A\,\text{Sin}[d\,x]+112\,C\,\text{Sin}[d\,x])}{315\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(63\,A\,\text{Sin}[c]+112\,C\,\text{Sin}[c]+210\,A\,\text{Sin}[d\,x]+150\,C\,\text{Sin}[d\,x])}{315\,d}\right)-$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{21\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,10\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,4\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{15\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,8\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{13/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$\frac{4 a^3 (175 A + 221 C) \text{EllipticE}\left[\frac{1}{2} (c + d x), 2\right]}{195 d} + \frac{4 a^3 (95 A + 121 C) \text{EllipticF}\left[\frac{1}{2} (c + d x), 2\right]}{231 d} +$$

$$\frac{4 a^3 (95 A + 121 C) \sqrt{\text{Cos}[c + d x]} \text{Sin}[c + d x]}{231 d} + \frac{4 a^3 (175 A + 221 C) \text{Cos}[c + d x]^{3/2} \text{Sin}[c + d x]}{585 d} +$$

$$\frac{40 a^3 (118 A + 143 C) \text{Cos}[c + d x]^{5/2} \text{Sin}[c + d x]}{9009 d} + \frac{2 a^2 (145 A + 143 C) \text{Cos}[c + d x]^{7/2} (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{1287 d} +$$

$$\frac{12 a A \text{Cos}[c + d x]^{9/2} (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{143 d} + \frac{2 A \text{Cos}[c + d x]^{11/2} (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{13 d}$$

$$\frac{1}{A + 2 C + A \text{Cos}[2 c + 2 d x]} \text{Cos}[c + d x]^{11/2} \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + C \text{Sec}[c + d x]^2\right)$$

$$\left(-\frac{(175 A + 221 C) \text{Cot}[c]}{195 d} + \frac{(1811 A + 2134 C) \text{Cos}[d x] \text{Sin}[c]}{3696 d} + \frac{(7825 A + 7592 C) \text{Cos}[2 d x] \text{Sin}[2 c]}{37440 d} + \right.$$

$$\frac{(215 A + 132 C) \text{Cos}[3 d x] \text{Sin}[3 c]}{2464 d} + \frac{(59 A + 13 C) \text{Cos}[4 d x] \text{Sin}[4 c]}{1872 d} + \frac{3 A \text{Cos}[5 d x] \text{Sin}[5 c]}{352 d} +$$

$$\frac{A \text{Cos}[6 d x] \text{Sin}[6 c]}{832 d} + \frac{(1811 A + 2134 C) \text{Cos}[c] \text{Sin}[d x]}{3696 d} + \frac{(7825 A + 7592 C) \text{Cos}[2 c] \text{Sin}[2 d x]}{37440 d} +$$

$$\left.\frac{(215 A + 132 C) \text{Cos}[3 c] \text{Sin}[3 d x]}{2464 d} + \frac{(59 A + 13 C) \text{Cos}[4 c] \text{Sin}[4 d x]}{1872 d} + \frac{3 A \text{Cos}[5 c] \text{Sin}[5 d x]}{352 d} + \frac{A \text{Cos}[6 c] \text{Sin}[6 d x]}{832 d}\right) -$$

$$\frac{1}{231 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \sqrt{1 + \text{Cot}[c]^2}} 95 A \text{Cos}[c + d x]^5 \text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3$$

$$\left(A + C \text{Sec}[c + d x]^2\right) \text{Sec}[d x - \text{ArcTan}[\text{Cot}[c]]] \sqrt{1 - \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} \sqrt{1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} -$$

$$\frac{1}{21 d (A + 2 C + A \text{Cos}[2 c + 2 d x]) \sqrt{1 + \text{Cot}[c]^2}} 11 C \text{Cos}[c + d x]^5 \text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3$$

$$\left(A + C \text{Sec}[c + d x]^2\right) \text{Sec}[d x - \text{ArcTan}[\text{Cot}[c]]] \sqrt{1 - \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} \sqrt{1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} -$$

$$\frac{1}{78 d (A + 2 C + A \text{Cos}[2 c + 2 d x])} 35 A \text{Cos}[c + d x]^5 \text{Csc}[c] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + C \text{Sec}[c + d x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{30\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}17\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right),x,8,0\right\}$$

$$\frac{4\,a^3\,(5\,A+7\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{5\,d}+\frac{4\,a^3\,(105\,A+143\,C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{231\,d}+\frac{4\,a^3\,(105\,A+143\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+\frac{8\,a^3\,(35\,A+44\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{385\,d}+\frac{2\,a^2\,(35\,A+33\,C)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{231\,d}+\frac{4\,a\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{33\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(5A+7C)\,\mathrm{Cot}[c]}{5d}+\frac{(1953A+2354C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{3696d}+\frac{(25A+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{120d}+\right.$$

$$\frac{(189A+44C)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{2464d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{48d}+\frac{A\,\mathrm{Cos}[5dx]\,\mathrm{Sin}[5c]}{352d}+\frac{(1953A+2354C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{3696d}+$$

$$\left.\frac{(25A+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{120d}+\frac{(189A+44C)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{2464d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{48d}+\frac{A\,\mathrm{Cos}[5c]\,\mathrm{Sin}[5dx]}{352d}\right)-$$

$$\frac{1}{11d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}5A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}13C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{2d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}7C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(17\,A+27\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^3\,(11\,A+21\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{8\,a^3\,(16\,A+21\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{2\,a^2\,(73\,A+63\,C)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{315\,d}+\frac{4\,a\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(17A+27C)\,\mathrm{Cot}[c]}{15d}+\frac{(97A+84C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{168d}+\frac{(73A+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{360d}+\frac{3A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{56d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{144d}+\frac{(97A+84C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{168d}+\frac{(73A+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{360d}+\frac{3A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{56d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{144d}\right)-$$

$$\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}11A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{30d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}17A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}9C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^3\,(7\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(13\,A+35\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}-\frac{4\,a^3\,(41\,A-35\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(7\,A+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+\frac{12\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(14A+5C+14A\,\mathrm{Cos}[2c]+15C\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{10d}+\frac{(107A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{168d}+\frac{3A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{20d}+\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{56d}+\frac{(107A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{168d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{2d}+\frac{3A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{20d}+\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{56d}\right)-$$

$$\frac{1}{21d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}13A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$5C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{10d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}7A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{2d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^3\,(9\,A-5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(3\,A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}-\frac{8\,a^3\,(3\,A-10\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(9\,A-5\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{4\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(18A-25C+18A\,\mathrm{Cos}[2c]+5C\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{10d}+\frac{A\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{2d}+\frac{A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{20d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{2d}+\right.$$

$$\left.\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,\mathrm{Sin}[dx]}{6d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(C\,\mathrm{Sin}[c]+9C\,\mathrm{Sin}[dx])}{6d}+\frac{A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{20d}\right)-$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\right.$$

$$\left.\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,5C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{10d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,9A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{2d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^3\,(5\,A-9\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(5\,A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}+\frac{4\,a^3\,(5\,A+21\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(5\,A-9\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a\,(5\,A-3\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{A+2C+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(5A-36C+15A\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{10d}+\frac{A\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{6d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{6d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,\mathrm{Sin}[dx]}{10d}+\right.$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(C\,\mathrm{Sin}[c]+5C\,\mathrm{Sin}[dx])}{10d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(5C\,\mathrm{Sin}[c]+5A\,\mathrm{Sin}[dx]+18C\,\mathrm{Sin}[dx])}{10d}\right)-$$

$$\frac{1}{3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,5A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\right.$$

$$\left.\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{2d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{10d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])}\,9C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$-\frac{4\,a^3\,(5\,A+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+\frac{4\,a^3\,(35\,A+13\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+\frac{8\,a^3\,(70\,A+53\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a^2\,(5\,A+7\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{12\,a\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{(-25\,A-28\,C+5\,A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{10\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{14\,d}+\right.$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(5\,C\,\text{Sin}[c]+21\,C\,\text{Sin}[d\,x])}{70\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(63\,C\,\text{Sin}[c]+35\,A\,\text{Sin}[d\,x]+130\,C\,\text{Sin}[d\,x])}{210\,d}+$$

$$\left.\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(35\,A\,\text{Sin}[c]+130\,C\,\text{Sin}[c]+315\,A\,\text{Sin}[d\,x]+294\,C\,\text{Sin}[d\,x])}{210\,d}\right)-$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,5\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,-$$

$$\frac{1}{21\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,13\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,+$$

$$\frac{1}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{10\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,7\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,8,\,0\right\}$$

$$-\frac{4\,a^3\,(27\,A+17\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^3\,(21\,A+11\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{8\,a^3\,(21\,A+16\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^3\,(27\,A+17\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(63\,A+73\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{315\,d\,\text{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{4\,a\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{9\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)\Bigg(\frac{2\,(27\,A+17\,C)\,\text{Csc}[2\,c]}{15\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,\text{Sin}[d\,x]}{18\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(7\,C\,\text{Sin}[c]+27\,C\,\text{Sin}[d\,x])}{126\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(135\,C\,\text{Sin}[c]+63\,A\,\text{Sin}[d\,x]+238\,C\,\text{Sin}[d\,x])}{630\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(105\,A\,\text{Sin}[c]+110\,C\,\text{Sin}[c]+378\,A\,\text{Sin}[d\,x]+238\,C\,\text{Sin}[d\,x])}{210\,d}+$$

$$\left.\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(63\,A\,\text{Sin}[c]+238\,C\,\text{Sin}[c]+315\,A\,\text{Sin}[d\,x]+330\,C\,\text{Sin}[d\,x])}{630\,d}\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{21\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,11\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;+$$

$$\frac{1}{10\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,9\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{30\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,17\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},x,9,0\right\}$$

$$-\frac{4\,a^3\,(7\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]}{5\,d}+\frac{4\,a^3\,(143\,A+105\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{231\,d}+\frac{8\,a^3\,(44\,A+35\,C)\,\text{Sin}[c+d\,x]}{385\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^3\,(143\,A+105\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^3\,(7\,A+5\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(33\,A+35\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{231\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a\,C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{33\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{2\,(7\,A+5\,C)\,\text{Csc}[2\,c]}{5\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^6\,\text{Sin}[d\,x]}{22\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,(3\,C\,\text{Sin}[c]+11\,C\,\text{Sin}[d\,x])}{66\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(77\,C\,\text{Sin}[c]+33\,A\,\text{Sin}[d\,x]+126\,C\,\text{Sin}[d\,x])}{462\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(165\,A\,\text{Sin}[c]+630\,C\,\text{Sin}[c]+693\,A\,\text{Sin}[d\,x]+770\,C\,\text{Sin}[d\,x])}{2310\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(693\,A\,\text{Sin}[c]+770\,C\,\text{Sin}[c]+1430\,A\,\text{Sin}[d\,x]+1050\,C\,\text{Sin}[d\,x])}{2310\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(715\,A\,\text{Sin}[c]+525\,C\,\text{Sin}[c]+1617\,A\,\text{Sin}[d\,x]+1155\,C\,\text{Sin}[d\,x])}{1155\,d}\right)-$$

$$\frac{1}{21\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,13\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{11\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,5\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{10\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,7\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{2\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{7/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+a\,\mathrm{Sec}[c+d\,x]},\,x,\,7,\,0\right\}$$

$$-\frac{3\,(7\,A+5\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}+\frac{5\,(9\,A+7\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,a\,d}+\frac{5\,(9\,A+7\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,a\,d}-$$

$$\frac{(7\,A+5\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,a\,d}+\frac{(9\,A+7\,C)\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{7\,a\,d}-\frac{(A+C)\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\,\mathrm{Cos}[c+dx]^{3/2}$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4\,(5A+5C+16A\,\mathrm{Cos}[c]+10C\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5d}+\frac{2\,(51A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{21d}-\right.$$

$$\frac{4A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5d}+\frac{2A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{7d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+$$

$$\left.\frac{2\,(51A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{21d}-\frac{4A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5d}+\frac{2A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{7d}\right)-$$

$$\left(60A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\,\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)-$$

$$\left(20C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\,\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)+$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])}\,42A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\,\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,6\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,6,\,0\right\}$$

$$\frac{3\,(7\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}-\frac{(5\,A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}-$$

$$\frac{(5\,A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}+\frac{(7\,A+5\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}-\frac{(A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\Bigg(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{4\,(5\,A+5\,C+16\,A\,\text{Cos}[c]+10\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\frac{8\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}-$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-\frac{8\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\Bigg)\Bigg)\Big/$$

$$((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+\Bigg(20\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\Bigg(4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,42\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,6\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$-\frac{(3A+C)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{a\,d}+\frac{(5A+3C)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3\,a\,d}+$$

$$\frac{(5A+3C)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3\,a\,d}-\frac{(A+C)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{d\,(a+a\,\text{Sec}[c+dx])}$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)\left(\frac{4\,(A+C+2\,A\,\text{Cos}[c])\,\text{Csc}[c]}{d}+\right.\right.$$

$$\left.\left.\frac{8\,A\,\text{Cos}[dx]\,\text{Sin}[c]}{3\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{8\,A\,\text{Cos}[c]\,\text{Sin}[dx]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx])\right)-\left(20\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\right.$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]$$

$$\left.\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])\right)-$$

$$\left(4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])\right)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx])}\,6\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[dx+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[dx+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[dx+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[dx+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[dx+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,2\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,4,\,0\right\}$$

$$\frac{(3\,A+C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}-\frac{(A-C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \text{Cos}[c+d\,x]^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A+C+2\,A\,\text{Cos}[c])\,\text{Csc}[c]}{d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}\right)}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}+$$

$$\left(4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\left(4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,6\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \text{Cos}[c+d\,x]\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,2\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2 \text{Cos}[c+d\,x]\,\text{Csc}[c]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])},\ x,\ 5,\ 0\right\}$$

$$-\frac{(A+3\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}+\frac{(A-C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}+$$

$$\frac{(A+3\,C)\,\mathrm{Sin}[c+d\,x]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{\cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \cos[c+d x]^{3/2} \left(A+C \sec[c+d x]^2\right) \left(\frac{4 (A+3 C)}{d (-\sin[c]+\sin[2 c])}-\frac{4 \sec\left[\frac{3 c}{2}\right] \left(-A \sin\left[\frac{3 d x}{2}\right]-3 C \sin\left[\frac{3 d x}{2}\right]+2 C \sin\left[c-\frac{d x}{2}\right]+A \sin\left[2 c+\frac{d x}{2}\right]+C \sin\left[2 c+\frac{d x}{2}\right]\right)}{d \left(\cos\left[\frac{c}{2}+\frac{d x}{2}\right]+\cos\left[\frac{3 c}{2}+\frac{3 d x}{2}\right]\right)}\right)}{(A+2 C+A \cos[2 c+2 d x]) (a+a \sec[c+d x])}$$

$$-\left(4 A \cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \cos[c+d x] \csc[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right] \left(A+C \sec[c+d x]^2\right) \sec[d x-\text{ArcTan}[\cot[c]]] \sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]} \sqrt{-\sqrt{1+\cot[c]^2} \sin[c] \sin[d x-\text{ArcTan}[\cot[c]]]} \sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}\right) \Big/ \left(d (A+2 C+A \cos[2 c+2 d x]) \sqrt{1+\cot[c]^2} (a+a \sec[c+d x])\right)+$$

$$\left(4 C \cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \cos[c+d x] \csc[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\sin[d x-\text{ArcTan}[\cot[c]]]^2\right] \left(A+C \sec[c+d x]^2\right) \sec[d x-\text{ArcTan}[\cot[c]]] \sqrt{1-\sin[d x-\text{ArcTan}[\cot[c]]]} \sqrt{-\sqrt{1+\cot[c]^2} \sin[c] \sin[d x-\text{ArcTan}[\cot[c]]]} \sqrt{1+\sin[d x-\text{ArcTan}[\cot[c]]]}\right) \Big/ \left(d (A+2 C+A \cos[2 c+2 d x]) \sqrt{1+\cot[c]^2} (a+a \sec[c+d x])\right)+$$

$$\frac{1}{d (A+2 C+A \cos[2 c+2 d x]) (a+a \sec[c+d x])} 2 A \cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \cos[c+d x] \csc[c] \left(A+C \sec[c+d x]^2\right) \left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right] \sin[d x+\text{ArcTan}[\tan[c]]] \tan[c]\right) \Big/ \left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]} \sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]} \sqrt{\cos[c] \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}} \sqrt{1+\tan[c]^2}\right) - \frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]] \tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2 \cos[c]^2 \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c] \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}}}\right)+$$

$$\frac{1}{d (A+2 C+A \cos[2 c+2 d x]) (a+a \sec[c+d x])} 6 C \cos\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \cos[c+d x] \csc[c] \left(A+C \sec[c+d x]^2\right) \left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\cos[d x+\text{ArcTan}[\tan[c]]]^2\right] \sin[d x+\text{ArcTan}[\tan[c]]] \tan[c]\right) \Big/ \left(\sqrt{1-\cos[d x+\text{ArcTan}[\tan[c]]]} \sqrt{1+\cos[d x+\text{ArcTan}[\tan[c]]]} \sqrt{\cos[c] \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}} \sqrt{1+\tan[c]^2}\right) - \frac{\frac{\sin[d x+\text{ArcTan}[\tan[c]]] \tan[c]}{\sqrt{1+\tan[c]^2}}+\frac{2 \cos[c]^2 \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}}{\cos[c]^2+\sin[c]^2}}{\sqrt{\cos[c] \cos[d x+\text{ArcTan}[\tan[c]]] \sqrt{1+\tan[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\ x,\ 6,\ 0\right\}$$

$$\frac{(A+3\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}+\frac{(3\,A+5\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a\,d}+$$

$$\frac{(3\,A+5\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}-\frac{(A+3\,C)\,\mathrm{Sin}[c+d\,x]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]^{3/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{2\,(2\,C+A\,\mathrm{Cos}[c]+C\,\mathrm{Cos}[c])\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\right.$$

$$\left.\left.\frac{8\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(C\,\mathrm{Sin}[c]-3\,C\,\mathrm{Sin}[d\,x])}{3\,d}\right)\right)\Big/$$

$$((A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))-\left(4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\right.$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\left.\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\right)-$$

$$\left(20\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\ \frac{1}{2}\right\},\ \left\{\frac{5}{4}\right\},\ \mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}\,2\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}\,6\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,7,\,0\right\}$$

$$-\frac{3\,(5\,A+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}-\frac{(3\,A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+$$

$$\frac{(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{5\,a\,d\,\text{Cos}[c+d\,x]^{5/2}}-\frac{(3\,A+5\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{3\,(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{5\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{2\,(10\,A+16\,C+5\,A\,\text{Cos}[c]+5\,C\,\text{Cos}[c])\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]}{5\,d}+\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{8\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}-$$

$$\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,C\,\mathrm{Sin}[c]-15\,A\,\mathrm{Sin}[d\,x]-24\,C\,\mathrm{Sin}[d\,x])}{15\,d}+\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,C\,\mathrm{Sin}[c]-5\,C\,\mathrm{Sin}[d\,x])}{15\,d}\Bigg)+$$

$$\Bigg(4\,A\,\mathrm{Cos}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\Big]$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\Big(d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\Big)+$$

$$\Bigg(20\,C\,\mathrm{Cos}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\Big]$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\Big(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\Big)+$$

$$\frac{1}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}\,6\,A\,\mathrm{Cos}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Big(\mathrm{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}\,42\,C\,\mathrm{Cos}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{7/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$-\frac{7\,(11\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^2\,d}+\frac{10\,(15\,A+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,a^2\,d}+\frac{10\,(15\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,a^2\,d}-\frac{7\,(11\,A+5\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a^2\,d}+\frac{2\,(15\,A+7\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{7\,a^2\,d}-\frac{(A+C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(11\,A+5\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(400\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(7\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\left(80\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{8\,(25A+15C+52A\,\mathrm{Cos}[c]+20C\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5d}+\right.$$

$$\frac{4\,(107A+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{21d}-\frac{16A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5d}+\frac{4A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{7d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(5A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+$$

$$\left.\frac{4\,(107A+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{21d}-\frac{16A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5d}+\frac{4A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{7d}-\frac{4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}\right)+$$

$$\frac{1}{5d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}\,308A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}\,28C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]^{5/2}\,\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^2},\,x,\,7,\,0\right\}$$

$$\frac{4\,(14\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^2\,d}-\frac{5\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-\frac{5\,(3\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}+$$

$$\frac{4\,(14\,A+5\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a^2\,d}-\frac{(A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(3\,A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(40\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\left(40\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{16\,(10\,A+5\,C+18\,A\,\text{Cos}[c]+5\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\frac{32\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{8\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(2\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-$$

$$\left.\frac{32\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{8\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,224\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{(7\,A+C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{2\,(5\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{2\,(5\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(7\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\Bigg(80\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\Bigg(16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^2}\ \text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\ \sqrt{\text{Cos}[c+d\,x]}\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{8\,(3\,A+C+4\,A\,\text{Cos}[c])\ \text{Csc}[c]}{d}+\frac{16\,A\,\text{Cos}[d\,x]\ \text{Sin}[c]}{3\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\ \text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\ \left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\right.$$

$$\left.\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\ \text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\ \left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{16\,A\,\text{Cos}[c]\ \text{Sin}[d\,x]}{3\,d}-\frac{4\,(A+C)\ \text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\ \text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^2}\ 28\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\ \text{Csc}[c]\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\ \text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]\right)\Bigg/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^2}\ 4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\ \text{Csc}[c]\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\ -\frac{1}{4}\right\},\ \left\{\frac{3}{4}\right\},\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\ \text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]\right)\Bigg/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 5,\ 0\right\}$$

$$\frac{4\,A\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}-\frac{(5\,A-C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(A+C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(5\,A-C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(40\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\left(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{16\,A\,\text{Cot}\left[\frac{c}{2}\right]}{d}-\frac{16\,A\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{d}+\right.\right.$$

$$\left.\left.\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)-\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$16\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$-\frac{(A-C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a^2\,d}+\frac{2\,(A+C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(A+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-C)\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(16\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\left(16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{8\,(A-C)\,\text{Csc}[c]}{d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-\right.\right.$$

$$\left.\left.\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)+\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{4\,C\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(A-5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{4\,C\,\text{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-5\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(8\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\left(40\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{32\,C}{d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\right.\right.$$

$$\left.\left.\frac{16\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-2\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)+\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$\frac{(A+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{2\,(A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+\frac{2\,(A+5\,C)\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}}-$$

$$\frac{(A+7\,C)\,\text{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(A+7\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(16\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(80\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{4\,(4\,C-3\,A\,\mathrm{Cos}[c]-27\,C\,\mathrm{Cos}[c]+2\,C\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{3\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{16\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{16\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+$$

$$\left(8\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-2\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-21\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+9\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+2\,A\,\mathrm{Sin}\left[\right.\right.\right.$$

$$\left.\left.\left.c+\frac{d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+2\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+10\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/\left(3\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]+A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+3\,C\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+2\,C\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-2\,C\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{3\,d}-$$

$$\left.\frac{4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)-$$

$$\frac{1}{d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}\,4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Csc}[c]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,28\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$-\frac{4\,(5\,A+14\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^2\,d}-\frac{5\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{4\,(5\,A+14\,C)\,\text{Sin}[c+d\,x]}{15\,a^2\,d\,\text{Cos}[c+d\,x]^{5/2}}-\frac{5\,(A+3\,C)\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,(5\,A+14\,C)\,\text{Sin}[c+d\,x]}{5\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{(A+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(A+3\,C)\,\text{Sin}[c+d\,x]}{a\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\Bigg(40\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(40\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{4\,(10\,A-30\,C+45\,A\,\text{Cos}[c]+213\,C\,\text{Cos}[c]+5\,A\,\text{Cos}[2\,c]-15\,C\,\text{Cos}[2\,c])\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{15\,d\left(-2\,\text{Sin}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{3\,c}{2}\right]\right)}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-3\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+$$

$$\frac{16\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}+\frac{16\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,C\,\text{Sin}[c]-10\,C\,\text{Sin}[d\,x])}{15\,d}-$$

$$\frac{8\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(4\,C\,\text{Sin}[c]+A\,\text{Sin}[d\,x]-3\,C\,\text{Sin}[d\,x])}{3\,d}-$$

$$\frac{8\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-60\,A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-168\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+35\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+93\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+25\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+75\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{15\,d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\Bigg)+$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,16\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}\,224\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{7\,(33\,A+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(63\,A+13\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-$$

$$\frac{(63\,A+13\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^3\,d}+\frac{7\,(33\,A+7\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{30\,a^3\,d}-$$

$$\frac{(A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{2\,(6\,A+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(63\,A+13\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\Bigg(168\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\left(104\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{8\,(99\,A+29\,C+132\,A\,\text{Cos}[c]+20\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\right.$$

$$\frac{32\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{d}+\frac{16\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(12\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+7\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(99\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+29\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\left.\frac{32\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+\frac{16\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{16\,(12\,A+7\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,924\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,196\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$-\frac{(119\,A+9\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(11\,A+C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{2\,a^3\,d}+\frac{(11\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a^3\,d}-\frac{(A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(119\,A+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{30\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(88\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{8\,(59\,A+9\,C+60\,A\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{32\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(19\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+9\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(59\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+9\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{32\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}-\frac{8\,(19\,A+9\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$476\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,36\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{(49\,A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(13\,A-C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3}-$$

$$\frac{2\,(4\,A-C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(13\,A-C)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(104\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(-\frac{8\,(29\,A-C+20\,A\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(29\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\right.\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(7\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\left.\left.\frac{16\,(7\,A+2\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\sqrt{\mathrm{Cos}[c+d\,x]}\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-\frac{1}{5\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$196\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{(9\,A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{2\,(3\,A-2\,C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(3\,A+C)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\Bigg(8\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)-$$

$$\Bigg(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])^3\right)+\Bigg(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{8\,(9\,A-C)\,\text{Csc}[c]}{5\,d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(9\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(9\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{8\,(9\,A-C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\Bigg)\Bigg)\Bigg/$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\ (A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^3\right)+\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^3}$$

$$36\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\ \text{Sec}[c+d\,x]\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^3}\,4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\ \text{Sec}[c+d\,x]\ \left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\ (a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 6,\ 0\right\}$$

$$-\frac{(A-9C)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{10a^3d}+\frac{(A+3C)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{6a^3d}-\frac{(A+C)\,\text{Sin}[c+dx]}{5d\,\text{Cos}[c+dx]^{5/2}\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{2(2A-3C)\,\text{Sin}[c+dx]}{15ad\,\text{Cos}[c+dx]^{3/2}\,(a+a\,\text{Sec}[c+dx])^2}+\frac{(A-9C)\,\text{Sin}[c+dx]}{10a^2d\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])}$$

$$-\left(8A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)\right.$$

$$\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3d\,(A+2C+A\,\text{Cos}[2c+2dx])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])^3\right)-$$

$$\left(8C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+dx]\right.$$

$$\left(A+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2C+A\,\text{Cos}[2c+2dx])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])^3\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\left(A+C\,\text{Sec}[c+dx]^2\right)\left(\frac{8(A-9C)\,\text{Csc}[c]}{5d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\text{Sin}\left[\frac{dx}{2}\right]-9C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+\right.\right.$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(2A\,\text{Sin}\left[\frac{dx}{2}\right]-3C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+$$

$$\left.\left.\frac{16(2A-3C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5d}\right)\right)\Big/$$

$$\left(\sqrt{\text{Cos}[c+dx]}\,(A+2C+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)+\frac{1}{5d\,(A+2C+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}$$

$$4A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[dx+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[dx+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,36\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$\frac{(A-49\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A-13\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A-49\,C)\,\text{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{(A+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{2\,(A-4\,C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-13\,C)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\Bigg(8\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\left(104\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]\right.$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{8\,(A-49\,C)}{5\,d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}+\right.\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+11\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{8\,\text{Sec}\left[\frac{3\,c}{2}\right]\,\left(-A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+49\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-20\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-29\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{5\,d\,\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\left.\left.\frac{8\,(A+11\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,196\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{(9\,A+119\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A+11\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{2\,a^3\,d}+\frac{(A+11\,C)\,\text{Sin}[c+d\,x]}{2\,a^3\,d\,\text{Cos}[c+d\,x]^{3/2}}-\frac{(9\,A+119\,C)\,\text{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{2\,C\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(9\,A+119\,C)\,\text{Sin}[c+d\,x]}{30\,a^2\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(8\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)-$$

$$\left(88\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{4\,(40\,C-27\,A\,\text{Cos}[c]-417\,C\,\text{Cos}[c]+20\,C\,\text{Cos}[2\,c])\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{15\,d\left(-2\,\text{Sin}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{32\,C\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+8\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{32\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\left(8\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-24\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-\right.\right.$$

$$64\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]-27\,A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-357\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-12\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+128\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+24\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+$$

$$\left.\left.64\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+15\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+165\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/\left(15\,d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]\,\text{Sec}[c+d\,x]\left(-3\,A\,\text{Sin}\left[\frac{c}{2}\right]-3\,C\,\text{Sin}\left[\frac{c}{2}\right]+3\,A\,\text{Sin}\left[\frac{3\,c}{2}\right]+13\,C\,\text{Sin}\left[\frac{3\,c}{2}\right]+5\,C\,\text{Sin}\left[\frac{c}{2}-d\,x\right]-5\,C\,\text{Sin}\left[\frac{c}{2}+d\,x\right]\right)}{15\,d}-$$

$$\left.\frac{16\,(3\,A+8\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,36\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}\,476\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{Sec}[c+d\,x]\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,4,\,0\right\}$$

$$\frac{\sqrt{2}\,a\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(2\,A-C)\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}2\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}}C\,\text{Csc}[c+d\,x]\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Sin}[c+d\,x]^2}+(2\,A+C\,\text{Sec}[c+d\,x])\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,4,\,0\right\}$$

$$\frac{a\,(8\,A+3\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,C\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{4\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(2\,(8\,A+3\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+C\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]\text{Sec}[c+d\,x]^2\left(\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+3\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{5/2}},\,x,\,6,\,0\right\}$$

$$\frac{a\,(48\,A+35\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,C\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(48\,A+35\,C)\,\text{Sin}[c+d\,x]}{96\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(48\,A+35\,C)\,\text{Sin}[c+d\,x]}{64\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{7/2}}$$

$$\frac{1}{384\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(12\,(48\,A+35\,C)\,\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\,\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$(192\,A+332\,C+(432\,A+539\,C)\,\text{Cos}[c+d\,x]+4\,(48\,A+35\,C)\,\text{Cos}[2\,(c+d\,x)]+144\,A\,\text{Cos}[3\,(c+d\,x)]+105\,C\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}[c+d\,x]^4\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\,\sqrt{2}\,a^2\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,(4\,A+5\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{5\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}$$

$$2\,a\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}}10\,C\,\text{Csc}[c+d\,x]\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\,\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Sin}[c+d\,x]^2}+$$

$$\left.(13\,A+10\,C+6\,A\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{3\,\sqrt{2}\,a^2\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(8\,A-3\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{a\,(2\,A-3\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,2\,a\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}}9\,C\,\text{Csc}[c+d\,x]\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\,\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Sin}[c+d\,x]^2}+$$

$$\left.(A+3\,C+10\,A\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(24\,A+11\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(24\,A+19\,C)\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{48\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(12\,(24\,A+11\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$\left.(24\,A+49\,C+44\,C\,\text{Cos}[c+d\,x]+3\,(8\,A+11\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{a^2\,(112\,A+75\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(16\,A+13\,C)\,\text{Sin}[c+d\,x]}{32\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(112\,A+75\,C)\,\text{Sin}[c+d\,x]}{64\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{256\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(8\,(112\,A+75\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$(64\,A+164\,C+7\,(48\,A+55\,C)\,\text{Cos}[c+d\,x]+4\,(16\,A+25\,C)\,\text{Cos}[2\,(c+d\,x)]+112\,A\,\text{Cos}[3\,(c+d\,x)]+75\,C\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]^3\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{a^2\,(176\,A+133\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(80\,A+67\,C)\,\text{Sin}[c+d\,x]}{240\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(176\,A+133\,C)\,\text{Sin}[c+d\,x]}{192\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(176\,A+133\,C)\,\text{Sin}[c+d\,x]}{128\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{3\,a\,C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{40\,d\,\text{Cos}[c+d\,x]^{7/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{7/2}}$$

$$\frac{1}{15360\,d\,(A+2C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(240\,(176\,A+133\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+$$
$$(10480\,A+13313\,C+12\,(880\,A+1273\,C)\,\mathrm{Cos}[c+d\,x]+4\,(3280\,A+3059\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+3520\,A\,\mathrm{Cos}[3\,(c+d\,x)]+2660$$
$$\left.C\,\mathrm{Cos}[3\,(c+d\,x)]+2640\,A\,\mathrm{Cos}[4\,(c+d\,x)]+1995\,C\,\mathrm{Cos}[4\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$
$$\frac{2\sqrt{2}\,a^3\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{2\,a^3\,(32\,A+49\,C)\,\mathrm{Sin}[c+d\,x]}{21\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,(8\,A+7\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,d}+$$
$$\frac{2\,a\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{7\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{7\,d}$$
$$\frac{1}{21\,d\,(A+2C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^2}$$
$$\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\mathrm{Cos}[c+d\,x]}}84\,C\,\mathrm{Csc}[c+d\,x]\right.$$
$$\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Sin}[c+d\,x]^2}+$$
$$\left.(208\,A+224\,C+(101\,A+28\,C)\,\mathrm{Cos}[c+d\,x]+24\,A\,\mathrm{Cos}[2\,(c+d\,x)]+3\,A\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$
$$\frac{5\sqrt{2}\,a^3\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(64\,A+15\,C)\,\mathrm{Sin}[c+d\,x]}{15\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{a^2\,(16\,A-15\,C)\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d\sqrt{\mathrm{Cos}[c+d\,x]}}+$$
$$\frac{2\,a\,A\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$
$$\frac{1}{15\,d\,(A+2C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^2}$$
$$\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\mathrm{Cos}[c+d\,x]}}150\,C\,\mathrm{Csc}[c+d\,x]\right.$$
$$\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Sin}[c+d\,x]^2}+$$
$$\left.(28\,A+30\,C+(181\,A+60\,C)\,\mathrm{Cos}[c+d\,x]+28\,A\,\mathrm{Cos}[2\,(c+d\,x)]+3\,A\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a^3\,(8\,A+19\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(56\,A-27\,C)\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{a^2\,(8\,A-21\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$
$$\frac{a\,(4\,A-3\,C)\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{6\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{3\,d}$$
$$\frac{1}{6\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])^2}\,\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(3\,(8\,A+19\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$
$$\left.\left(32\,A+6\,C+(6\,A+33\,C)\,\text{Cos}[c+d\,x]+32\,A\,\text{Cos}[2\,(c+d\,x)]+2\,A\,\text{Cos}[3\,(c+d\,x)]\right)\text{Sec}[c+d\,x]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{5\,a^3\,(8\,A+5\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(24\,A-49\,C)\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^2\,(24\,A+31\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{5\,a\,C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$
$$\frac{1}{96\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(120\,(8\,A+5\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])^2\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$
$$\left(24\,A+91\,C+(72\,A+68\,C)\,\text{Cos}[c+d\,x]+3\,(8\,A+25\,C)\,\text{Cos}[2\,(c+d\,x)]+24\,A\,\text{Cos}[3\,(c+d\,x)]\right)$$
$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\text{Sec}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{a^3\,(304\,A+163\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^3\,(432\,A+299\,C)\,\text{Sin}[c+d\,x]}{192\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$
$$\frac{a^2\,(16\,A+17\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{32\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{5\,a\,C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{1536\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(48\,(304\,A+163\,C)\,\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\,\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^2\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+$$
$$(192\,A+844\,C+(1584\,A+2203\,C)\,\mathrm{Cos}[c+d\,x]+4\,(48\,A+163\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+528\,A\,\mathrm{Cos}[3\,(c+d\,x)]+$$
$$\left.489\,C\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$\frac{a^3\,(400\,A+283\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(1040\,A+787\,C)\,\mathrm{Sin}[c+d\,x]}{960\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(400\,A+283\,C)\,\mathrm{Sin}[c+d\,x]}{128\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(80\,A+79\,C)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{240\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$
$$\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{8\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{30\,720\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(480\,(400\,A+283\,C)\,\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\,\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^2\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+$$
$$(20\,560\,A+24\,863\,C+12\,(1360\,A+2343\,C)\,\mathrm{Cos}[c+d\,x]+4\,(6640\,A+6509\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+5440\,A\,\mathrm{Cos}[3\,(c+d\,x)]+5660$$
$$\left.C\,\mathrm{Cos}[3\,(c+d\,x)]+6000\,A\,\mathrm{Cos}[4\,(c+d\,x)]+4245\,C\,\mathrm{Cos}[4\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{5/2}},\,x,\,8,\,0\right\}$$

$$\frac{a^3\,(1304\,A+1015\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{256\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(136\,A+109\,C)\,\mathrm{Sin}[c+d\,x]}{192\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^3\,(1304\,A+1015\,C)\,\mathrm{Sin}[c+d\,x]}{768\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(1304\,A+1015\,C)\,\mathrm{Sin}[c+d\,x]}{512\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a^2\,(24\,A+23\,C)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{96\,d\,\mathrm{Cos}[c+d\,x]^{7/2}}+\frac{a\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{12\,d\,\mathrm{Cos}[c+d\,x]^{7/2}}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{6\,d\,\mathrm{Cos}[c+d\,x]^{7/2}}$$

$$\frac{1}{49152\, d\, (A+2C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\left(192\,(1304\,A+1015\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^2\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+(18720\,A+27412\,C+14\,(4056\,A+4591\,C)\,\mathrm{Cos}[c+d\,x]+16\,(1496\,A+1711\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+25448\,A\,\mathrm{Cos}[3\,(c+d\,x)]+21721\,C\,\mathrm{Cos}[3\,(c+d\,x)]+5216\,A\,\mathrm{Cos}[4\,(c+d\,x)]+4060\,C\,\mathrm{Cos}[4\,(c+d\,x)]+3912\,A\,\mathrm{Cos}[5\,(c+d\,x)]+3045\,C\,\mathrm{Cos}[5\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,(A+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2d\,x])\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\,2\,\mathrm{Cos}[c+d\,x]^2\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{2\,A\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}-\frac{1}{2\,d\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}\,C\sqrt{\mathrm{Cos}[c+d\,x]}\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}+\mathrm{Cos}[c+d\,x]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\left[8\left(3+2\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[c+d\,x]^2+2\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]\right)\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right)+\frac{\mathrm{Cos}[c+d\,x]^{5/2}\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{4\,A\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d}+\frac{4\,A\,\mathrm{Tan}\left[\frac{c}{2}\right]}{d}\right)}{(A+2C+A\,\mathrm{Cos}[2c+2d\,x])\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(A+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{\sqrt{2}\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\,\text{Cos}[c+d\,x]^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-2\,\sqrt{2}\,(2\,A+C)\,\text{ArcTan}\left[\frac{\sqrt{-1+\text{Cos}[c+d\,x]}}{\sqrt{2}}\right]\,\sqrt{-1+\text{Cos}[c+d\,x]}\,\text{Csc}[c+d\,x]\,(1+\text{Sec}[c+d\,x])+$$

$$\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}}\,C\,\Big(4\,\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-$$

$$\sqrt{2}\,\text{Log}\left[(1+\text{Cos}[c+d\,x])^2\right]-4\,\text{Log}\left[2\,\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]+$$

$$\sqrt{2}\,\text{Log}\left[4\,\left(5+4\,\text{Cos}[c+d\,x]-\text{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\Big)$$

$$(1+\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]+4\,C\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(A+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(8\,A+7\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{C\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{C\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(\text{Cos}[c+d\,x]^{5/2}\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{3\,C\,\text{Sin}\left[\frac{c}{2}\right]}{d\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}\right]\right)}+\frac{3\,C\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sin}\left[\frac{d\,x}{2}\right]}{2\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(2\,C\,\text{Sin}[c]-3\,C\,\text{Sin}[d\,x])}{2\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\right)+\frac{1}{4\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\text{Cos}[c+d\,x]^2\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,C\,\text{ArcTan}\left[\frac{\sqrt{-1+\text{Cos}[c+d\,x]}}{\sqrt{2}}\right]\,\sqrt{-1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,\sqrt{2-2\,\text{Cos}[c+d\,x]^2}\,\sqrt{1-\text{Cos}[c+d\,x]^2}}-\right.$$

$$\frac{1}{2\,d\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{1-\text{Cos}[c+d\,x]^2}}\,(8\,A+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\left(-\sqrt{2}\,\text{Log}\left[(1+\text{Cos}[c+d\,x])^2\right]+\right.$$

$$4\,\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}+\text{Cos}[c+d\,x]^{3/2}\right]-4\,\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{1-\text{Cos}[c+d\,x]^2}\right)\right]+\sqrt{2}\,\text{Log}\Big[$$

$$\left.\left.8\left(3+2\,\text{Cos}[c+d\,x]-\text{Cos}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{1-\text{Cos}[c+d\,x]^2}\right)\Big]\right)\,\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(A+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(8\,A+9\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{C\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{C\,\text{Sin}[c+d\,x]}{12\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(8\,A+7\,C)\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,a\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

$$\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-6\,\sqrt{2}\,(8\,A+7\,C)\,\text{ArcTan}\left[\frac{\sqrt{-1+\text{Cos}[c+d\,x]}}{\sqrt{2}}\right]\,\sqrt{-1+\text{Cos}[c+d\,x]}\,\text{Csc}[c+d\,x]+\right.$$

$$\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}}\,3\,(8\,A+9\,C)\,\left(4\,\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\right.$$

$$\sqrt{2}\,\text{Log}\left[(1+\text{Cos}[c+d\,x])^2\right]-4\,\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]+$$

$$\left.\sqrt{2}\,\text{Log}\left[4\left(5+4\,\text{Cos}[c+d\,x]-\text{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\,\text{Sin}[c+d\,x]+$$

$$\left.2\,(24\,A+37\,C-4\,C\,\text{Cos}[c+d\,x]+3\,(8\,A+7\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]^3\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(3\,A-5\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left.\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]-C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{2\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,d}\right)\right)\Big/$$

$$\left((A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\right)+\frac{1}{2\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}[c+d\,x]^2\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,(3\,A-C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\,\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}-\right.$$

$$\frac{1}{d\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}\,2\,C\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}+\mathrm{Cos}[c+d\,x]^{3/2}\right]-4\,\mathrm{Log}\left[2\,\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\,\left(3+2\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]\right)\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(A+9\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{3\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(A+3\,C)\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{3/2}}\mathrm{Cos}[c+dx]^{5/2}\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}$$

$$(1+\mathrm{Sec}[c+dx])^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4C\,\mathrm{Sin}\left[\frac{c}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Cos}\left[\frac{3c}{2}\right]\right)}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{2d}-\right.$$

$$\left.\frac{2C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\mathrm{Sin}\left[\frac{dx}{2}\right]}{d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{2d}+\frac{2C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{d}\right)+$$

$$\frac{1}{2\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{3/2}}\mathrm{Cos}[c+dx]^2\,(1+\mathrm{Sec}[c+dx])^{3/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{2\,(-A-3C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{d\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}+\right.$$

$$\frac{1}{d\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}3C\sqrt{\mathrm{Cos}[c+dx]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}+\mathrm{Cos}[c+dx]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\left(3+2\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[c+dx]^2+2\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\Big]\right)\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+dx]^2}{\mathrm{Cos}[c+dx]^{5/2}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$-\frac{(5A+13C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]}{2ad\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{(8A+19C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]}{2\sqrt{2}\,ad\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{(A+C)\,\mathrm{Sin}[c+dx]}{2d\,\mathrm{Cos}[c+dx]^{7/2}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}}+\frac{(A+2C)\,\mathrm{Sin}[c+dx]}{2ad\,\mathrm{Cos}[c+dx]^{5/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}}-\frac{(2A+7C)\,\mathrm{Sin}[c+dx]}{4ad\,\mathrm{Cos}[c+dx]^{3/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}}$$

$$\frac{1}{8d\,(A+2C+A\,\mathrm{Cos}[2(c+dx)])\,(a\,(1+\mathrm{Sec}[c+dx]))^{3/2}}\mathrm{Cos}[c+dx]^{5/2}\,(1+\mathrm{Sec}[c+dx])^2$$

$$\left(A+C\,\mathrm{Sec}[c+dx]^2\right)\left(2\sqrt{2}\,(2A+7C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\mathrm{Csc}[c+dx]+\right.$$

$$\frac{1}{\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}}(8A+19C)\,\left(-4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}\,(1+\mathrm{Cos}[c+dx])\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)\right]-$$

$$\sqrt{2}\,\mathrm{Log}\left[4\left(5+4\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[2(c+dx)]+4\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)\right]\Big)\,\mathrm{Sin}[c+dx]-$$

$$\left.(2A+3C+6C\,\mathrm{Cos}[c+dx]+(2A+7C)\,\mathrm{Cos}[2(c+dx)])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Sec}[c+dx]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(5\,A-43\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{16\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+\frac{(5\,A-11\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\left(5\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]-11\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{16\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]-C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{8\,d}+\right.$$

$$\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(5\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-11\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{16\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{8\,d}\right)+$$

$$\frac{1}{16\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}\,\mathrm{Cos}[c+d\,x]^2\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,(5\,A-11\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\,\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}-\right.$$

$$\frac{1}{d\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}\,16\,C\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}+\mathrm{Cos}[c+d\,x]^{3/2}\right]-4\,\mathrm{Log}\left[2\,\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\,\left(3+2\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]\right)\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{(3\,A+115\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{16\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{5\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+$$

$$\frac{(A-15\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(3\,A+35\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\mathrm{Cos}[c+dx]^{5/2}\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}\;(1+\mathrm{Sec}[c+dx])^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{4\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Cos}\left[\frac{3c}{2}\right]\right)}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{8\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(3\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]+19\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{16\,d}-\right.$$

$$\frac{2\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\mathrm{Sin}\left[\frac{dx}{2}\right]}{d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8\,d}+$$

$$\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(3\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+19\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{16\,d}+\frac{2\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{d}\right)+$$

$$\frac{1}{16\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}\mathrm{Cos}[c+dx]^2\,(1+\mathrm{Sec}[c+dx])^{5/2}\left(A+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{2\,(-3A-35C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{d\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}+\right.$$

$$\frac{1}{d\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}\,40\,C\,\sqrt{\mathrm{Cos}[c+dx]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}+\mathrm{Cos}[c+dx]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\left(3+2\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[c+dx]^2+2\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\Big]\right)\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2,\ x,\ 3,\ 0\right\}$$

$$\frac{B\,\mathrm{ArcTanh}[\mathrm{Sin}[c+dx]]}{d}+\frac{C\,\mathrm{Tan}[c+dx]}{d}$$

$$\frac{B\left(-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+C\,\mathrm{Tan}[c+dx]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+dx]\left(B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),\ x,\ 3,\ 0\right\}$$

$$B\,x+\frac{C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+dx]]}{d}$$

$$\frac{B\,d\,x-C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+dx]^2\,(a+a\,\mathrm{Sec}[c+dx])\left(B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a\,(4\,B+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a\,(B+C)\,\text{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{a\,(4\,B+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a\,(B+C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d}$$
$$-\frac{1}{192\,d}\,a\,\text{Sec}[c+d\,x]^4\left(36\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+27\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$12\,(4\,B+3\,C)\,\text{Cos}[2\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$3\,(4\,B+3\,C)\,\text{Cos}[4\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$36\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-27\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$24\,B\,\text{Sin}[c+d\,x]-66\,C\,\text{Sin}[c+d\,x]-64\,B\,\text{Sin}[2\,(c+d\,x)]-64\,C\,\text{Sin}[2\,(c+d\,x)]-$$
$$\left.24\,B\,\text{Sin}[3\,(c+d\,x)]-18\,C\,\text{Sin}[3\,(c+d\,x)]-16\,B\,\text{Sin}[4\,(c+d\,x)]-16\,C\,\text{Sin}[4\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])\,\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{a\,(B+C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a\,(3\,B+2\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,(B+C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$
$$-\frac{1}{24\,d}$$
$$a\,\text{Sec}[c+d\,x]^3\left(9\,(B+C)\,\text{Cos}[c+d\,x]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$3\,(B+C)\,\text{Cos}[3\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$\left.4\,(3\,B+4\,C+3\,(B+C)\,\text{Cos}[c+d\,x]+(3\,B+2\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\text{Sec}[c+d\,x])\,\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,4,\,0\right\}$$

$$\frac{a\,(2\,B+C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a\,(2\,B+C)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$
$$\frac{1}{4\,d}a\left(-2\,(2\,B+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$4\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+2\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+4\,(B+C)\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])\,\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,3,\,0\right\}$$

$$a\,B\,x+\frac{a\,(B+C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a\,C\,\text{Tan}[c+d\,x]}{d}$$

$$\frac{1}{d}a\left(B\,d\,x-(B+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+C\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$(a\,B+a\,C)\,x+\frac{a\,C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a\,B\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{a\left(B\,d\,x+C\,d\,x-C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+B\,\text{Sin}[c+d\,x]\right)}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^2\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{a^2\,(7\,B+6\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a^2\,(10\,B+9\,C)\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,(7\,B+6\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a^2\,(10\,B+9\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,(5\,B+6\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{20\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{1}{1920\,d}a^2\,\text{Sec}[c+d\,x]^5\left(105\,B\,\text{Cos}[5\,(c+d\,x)]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+90\,C\,\text{Cos}[5\,(c+d\,x)]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+150\,(7\,B+6\,C)\,\text{Cos}[c+d\,x]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)+75\,(7\,B+6\,C)\,\text{Cos}[3\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)-105\,B\,\text{Cos}[5\,(c+d\,x)]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-90\,C\,\text{Cos}[5\,(c+d\,x)]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-640\,B\,\text{Sin}[c+d\,x]-960\,C\,\text{Sin}[c+d\,x]-660\,B\,\text{Sin}[2\,(c+d\,x)]-840\,C\,\text{Sin}[2\,(c+d\,x)]-800\,B\,\text{Sin}[3\,(c+d\,x)]-720\,C\,\text{Sin}[3\,(c+d\,x)]-210\,B\,\text{Sin}[4\,(c+d\,x)]-180\,C\,\text{Sin}[4\,(c+d\,x)]-160\,B\,\text{Sin}[5\,(c+d\,x)]-144\,C\,\text{Sin}[5\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a^2\,(8\,B+7\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{a^2\,(5\,B+4\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a^2\,(8\,B+7\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a^2\,(4\,B+5\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{1}{192\,d}a^2\,\text{Sec}[c+d\,x]^4\left(72\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+63\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$12\,(8\,B+7\,C)\,\text{Cos}[2\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)+$$
$$3\,(8\,B+7\,C)\,\text{Cos}[4\,(c+d\,x)]\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)-$$
$$72\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-63\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$
$$48\,B\,\text{Sin}[c+d\,x]-90\,C\,\text{Sin}[c+d\,x]-112\,B\,\text{Sin}[2\,(c+d\,x)]-128\,C\,\text{Sin}[2\,(c+d\,x)]-$$
$$\left.48\,B\,\text{Sin}[3\,(c+d\,x)]-42\,C\,\text{Sin}[3\,(c+d\,x)]-40\,B\,\text{Sin}[4\,(c+d\,x)]-32\,C\,\text{Sin}[4\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\text{Sec}[c+d\,x])^2\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(3\,B+2\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(3\,B+2\,C)\,\text{Tan}[c+d\,x]}{2\,d}+$$
$$\frac{a\,(3\,B+2\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d\,(C+B\,\text{Cos}[c+d\,x])}a^2\,\text{Cos}[c+d\,x]\,(B+C\,\text{Sec}[c+d\,x])$$
$$\left(-6\,(3\,B+2\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+18\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$12\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\frac{3\,B}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$
$$\frac{7\,C}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{3\,B}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{7\,C}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$
$$\left.2\,(6\,B+7\,C-C\,\text{Cos}[c+d\,x]+(6\,B+5\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$a^2\,B\,x+\frac{a^2\,(4\,B+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(2\,B+3\,C)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{a\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}a^2\left(4\,B\,c+4\,B\,d\,x-2\,(4\,B+3\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+\right.$$
$$8\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+6\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+$$
$$\left.\frac{C}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{C}{\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+4\,(B+2\,C)\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{a^3 (15 B + 13 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} + \frac{a^3 (45 B + 38 C) \text{Tan}[c + d x]}{15 d} + \frac{a^3 (15 B + 13 C) \text{Sec}[c + d x] \text{Tan}[c + d x]}{8 d} + \frac{a^3 (45 B + 43 C) \text{Sec}[c + d x]^2 \text{Tan}[c + d x]}{60 d} + \frac{a^2 (5 B + 7 C) \text{Sec}[c + d x]^2 (a + a \text{Sec}[c + d x]) \text{Tan}[c + d x]}{20 d} + \frac{a C \text{Sec}[c + d x]^2 (a + a \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{5 d}$$

$$-\frac{1}{1920 d} a^3 \text{Sec}[c + d x]^5 \left(225 B \text{Cos}[5 (c + d x)] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 195 C \text{Cos}[5 (c + d x)] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 150 (15 B + 13 C) \text{Cos}[c + d x] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + 75 (15 B + 13 C) \text{Cos}[3 (c + d x)] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) - 225 B \text{Cos}[5 (c + d x)] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - 195 C \text{Cos}[5 (c + d x)] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - 1200 B \text{Sin}[c + d x] - 1600 C \text{Sin}[c + d x] - 1140 B \text{Sin}[2 (c + d x)] - 1500 C \text{Sin}[2 (c + d x)] - 1560 B \text{Sin}[3 (c + d x)] - 1520 C \text{Sin}[3 (c + d x)] - 450 B \text{Sin}[4 (c + d x)] - 390 C \text{Sin}[4 (c + d x)] - 360 B \text{Sin}[5 (c + d x)] - 304 C \text{Sin}[5 (c + d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a + a \text{Sec}[c + d x])^3 \left(B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{5 a^3 (4 B + 3 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} + \frac{5 a^3 (4 B + 3 C) \text{Tan}[c + d x]}{8 d} + \frac{5 a^2 (4 B + 3 C) (a + a \text{Sec}[c + d x]) \text{Tan}[c + d x]}{24 d} + \frac{a (4 B + 3 C) (a + a \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{12 d} + \frac{C (a + a \text{Sec}[c + d x])^3 \text{Tan}[c + d x]}{4 d}$$

$$-\frac{1}{192 d} a^3 \text{Sec}[c + d x]^4 \left(180 B \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 135 C \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 60 (4 B + 3 C) \text{Cos}[2 (c + d x)] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + 15 (4 B + 3 C) \text{Cos}[4 (c + d x)] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) - 180 B \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - 135 C \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - 72 B \text{Sin}[c + d x] - 138 C \text{Sin}[c + d x] - 208 B \text{Sin}[2 (c + d x)] - 240 C \text{Sin}[2 (c + d x)] - 72 B \text{Sin}[3 (c + d x)] - 90 C \text{Sin}[3 (c + d x)] - 88 B \text{Sin}[4 (c + d x)] - 72 C \text{Sin}[4 (c + d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^3 \left(B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 5, 0\right\}$$

$$a^3 B x + \frac{a^3 (7 B + 5 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{5 a^3 (B + C) \text{Tan}[c + d x]}{2 d} + \frac{a^2 (3 B + 5 C) (a + a \text{Sec}[c + d x]) \text{Tan}[c + d x]}{6 d} + \frac{a C (a + a \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{3 d}$$

$$\frac{1}{24\,d}\,a^3\,\text{Sec}[c+d\,x]^3\left(9\,\text{Cos}[c+d\,x]\left(2\,B\,(c+d\,x)-(7\,B+5\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+(7\,B+5\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+3\,\text{Cos}[3\,(c+d\,x)]\left(2\,B\,(c+d\,x)-(7\,B+5\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+(7\,B+5\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+4\,(9\,B+13\,C+3\,(B+3\,C)\,\text{Cos}[c+d\,x]+(9\,B+11\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}+\frac{(B-C)\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}\,2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\left(C\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+(B-C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{(4\,B-7\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^2\,d}+\frac{2\,(5\,B-8\,C)\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-\frac{(4\,B-7\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^2\,d}+\frac{(B-C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(5\,B-8\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a^2}\left(\frac{(4\,B-7\,C)\,\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right](B+C\,\text{Sec}[c+d\,x])}{2\,d\,(C+B\,\text{Cos}[c+d\,x])}+\frac{(-4\,B+7\,C)\,\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right](B+C\,\text{Sec}[c+d\,x])}{2\,d\,(C+B\,\text{Cos}[c+d\,x])}+\frac{C\,\text{Cos}[c+d\,x]\,(B+C\,\text{Sec}[c+d\,x])}{4\,d\,(C+B\,\text{Cos}[c+d\,x])\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C\,\text{Cos}[c+d\,x]\,(B+C\,\text{Sec}[c+d\,x])}{4\,d\,(C+B\,\text{Cos}[c+d\,x])\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right](B+C\,\text{Sec}[c+d\,x])\left(7\,B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-10\,C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{3\,d\,(C+B\,\text{Cos}[c+d\,x])}+\frac{\text{Cos}[c+d\,x]\,(B+C\,\text{Sec}[c+d\,x])\left(B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{d\,(C+B\,\text{Cos}[c+d\,x])\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{\text{Cos}[c+d\,x]\,(B+C\,\text{Sec}[c+d\,x])\left(B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{d\,(C+B\,\text{Cos}[c+d\,x])\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3(B+C\,\text{Sec}[c+d\,x])\left(B\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{6\,d\,(C+B\,\text{Cos}[c+d\,x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 3,\ 0\right\}$$

$$\frac{(B+3\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}+\frac{(B-C)\,\mathrm{Tan}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\left(2\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\mathrm{Sec}[c+d\,x]\right.$$

$$\left(\left((B+3\,C)\,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}+\right.\right.$$

$$\left.\left.\sqrt{2}\,(B-C)\,\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/\left(d\,(1+\mathrm{Cos}[c+d\,x])\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{(3\,B+5\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{a}\,\mathrm{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}+\frac{(B-C)\,\mathrm{Tan}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+\frac{(3\,B+5\,C)\,\mathrm{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,\mathrm{Sec}[c+d\,x]^{3/2}\,(B+C\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left(4\,(3\,B+5\,C)\,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}+\right.$$

$$\left.\left.\sqrt{2}\,\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}\,(3\,B+5\,C+(7\,B+C)\,\mathrm{Cos}[c+d\,x])\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)\right)\Big/$$

$$\left(4\,d\,(1+\mathrm{Cos}[c+d\,x])^2\,(C+B\,\mathrm{Cos}[c+d\,x])\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{3\,B\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{2\,(5\,A+4\,C)\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{3\,B\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+$$

$$\frac{(5\,A+4\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{B\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{4\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{3\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{3\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+$$
$$\frac{B}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{3\,B}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{B}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}-\frac{3\,B}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{2\,A\,\text{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{8\,C\,\text{Tan}[c+d\,x]}{15\,d}+\frac{A\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{4\,C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{C\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{(4\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,B\,\text{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{(4\,A+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{C\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d}$$
$$-\frac{A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}-$$
$$\frac{3\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{3\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+$$
$$\frac{A}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{3\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}-\frac{A}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{3\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{2\,B\,\text{Tan}[c+d\,x]}{3\,d}+\frac{B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 3,\ 0\right\}$$

$$\frac{(2\,A+C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{B\,\text{Tan}[c+d\,x]}{d}+\frac{C\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}\left(-2\,(2\,A+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$4\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+2\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+4\,B\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2,\ x,\ 3,\ 0\right\}$$

$$A\,x+\frac{B\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{C\,\mathrm{Tan}[c+d\,x]}{d}$$

$$\frac{A\,d\,x-B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\mathrm{Tan}[c+d\,x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 3,\ 0\right\}$$

$$B\,x+\frac{C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{A\,\mathrm{Sin}[c+d\,x]}{d}$$

$$\frac{B\,d\,x-C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+A\,\mathrm{Sin}[c+d\,x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a\,(4\,A+3\,B+3\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a\,(5\,A+5\,B+4\,C)\,\mathrm{Tan}[c+d\,x]}{15\,d}+$$
$$\frac{a\,(4\,A+3\,B+3\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+\frac{a\,(5\,A+5\,B+4\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+$$
$$\frac{a\,(5\,B+C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{20\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{5\,d}$$
$$-\frac{a\,A\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}-\frac{3\,a\,B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}-$$
$$\frac{3\,a\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{a\,A\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{3\,a\,B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{3\,a\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+$$
$$\frac{a\,B}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{a\,C}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+$$
$$\frac{a\,A}{4\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{3\,a\,B}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{3\,a\,C}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{a\,B}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}-$$
$$\frac{a\,C}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}-\frac{a\,A}{4\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{3\,a\,B}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{3\,a\,C}{16\,d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{2\,a\,A\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{2\,a\,B\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{8\,a\,C\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a\,A\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{a\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{4\,a\,C\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a\,C\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\}$$

$$\frac{a\,(4\,A+4\,B+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{a\,(3\,A+2\,B+2\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,(4\,A+4\,B+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{a\,(4\,B+C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{4\,d}$$
$$-\frac{a\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}-\frac{a\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}-$$
$$\frac{3\,a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{a\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{a\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+\frac{3\,a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+$$
$$\frac{a\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{a\,A}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{a\,B}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{3\,a\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{a\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}-\frac{a\,A}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$
$$\frac{a\,B}{4\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{3\,a\,C}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{a\,A\,\text{Tan}[c+d\,x]}{d}+$$
$$\frac{2\,a\,B\,\text{Tan}[c+d\,x]}{3\,d}+\frac{2\,a\,C\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\}$$

$$\frac{a\,(2\,A+B+C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a\,(3\,A+3\,B+2\,C)\,\text{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{a\,(3\,B+C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{3\,d}$$
$$\frac{1}{6\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,a\,\text{Cos}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-6\,(2\,A+B+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,(2\,A+B+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$\frac{2\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{(3\,B+4\,C)\,\text{Cos}\left[\frac{c}{2}\right]-(3\,B+2\,C)\,\text{Sin}\left[\frac{c}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{4\,(3\,A+3\,B+2\,C)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{2\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$
$$\left.\frac{(3\,B+4\,C)\,\text{Cos}\left[\frac{c}{2}\right]+(3\,B+2\,C)\,\text{Sin}\left[\frac{c}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(3\,A+3\,B+2\,C)\,\text{Sin}\left[\frac{d\,x}{2}\right]}{\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+a\,\mathrm{Sec}[c+d\,x])\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2),\ x,\ 4,\ 0\}$$

$$a\,A\,x+\frac{a\,(2\,A+2\,B+C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{a\,(2\,B+C)\,\mathrm{Tan}[c+d\,x]}{2\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a\,\mathrm{Cos}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)$$
$$\left(4\,A\,x-\frac{2\,(2\,A+2\,B+C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,A\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{4\,B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{2\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+$$
$$\left.\frac{4\,(B+C)\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{d}+\frac{C}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2),\ x,\ 4,\ 0\}$$

$$(a\,A+a\,B)\,x+\frac{a\,(B+C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{a\,(A-C)\,\mathrm{Sin}[c+d\,x]}{d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{d}$$

$$\frac{1}{d}a\left(A\,d\,x+B\,d\,x-B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.$$
$$C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]+A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]+C\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\{\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2),\ x,\ 7,\ 0\}$$

$$\frac{a^2\,(14\,A+12\,B+11\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{16\,d}+\frac{2\,a^2\,(10\,A+9\,B+8\,C)\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,(14\,A+12\,B+11\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{16\,d}+$$
$$\frac{a^2\,(10\,A+9\,B+8\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,(10\,A+12\,B+9\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{40\,d}+$$
$$\frac{a\,(3\,B+C)\,\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^3\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{6\,d}$$

$$\frac{1}{15\,360\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^2\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\mathrm{Sec}[c+d\,x])^2\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)$$
$$\left(-480\,(14\,A+12\,B+11\,C)\,\mathrm{Cos}[c+d\,x]^4\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(-320\,(10\,A+9\,B+8\,C)\,\mathrm{Sin}[c]+30\,(22\,A+28\,B+47\,C)\,\mathrm{Sin}[d\,x]+660\,A\,\mathrm{Sin}[2\,c+d\,x]+$$
$$840\,B\,\mathrm{Sin}[2\,c+d\,x]+1410\,C\,\mathrm{Sin}[2\,c+d\,x]+3840\,A\,\mathrm{Sin}[c+2\,d\,x]+3840\,B\,\mathrm{Sin}[c+2\,d\,x]+3840\,C\,\mathrm{Sin}[c+2\,d\,x]-$$
$$960\,A\,\mathrm{Sin}[3\,c+2\,d\,x]-480\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+870\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+1020\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+935\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$870\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+1020\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+935\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+1920\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+1728\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+$$
$$1536\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+210\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+180\,B\,\mathrm{Sin}[4\,c+5\,d\,x]+165\,C\,\mathrm{Sin}[4\,c+5\,d\,x]+210\,A\,\mathrm{Sin}[6\,c+5\,d\,x]+$$
$$\left.180\,B\,\mathrm{Sin}[6\,c+5\,d\,x]+165\,C\,\mathrm{Sin}[6\,c+5\,d\,x]+320\,A\,\mathrm{Sin}[5\,c+6\,d\,x]+288\,B\,\mathrm{Sin}[5\,c+6\,d\,x]+256\,C\,\mathrm{Sin}[5\,c+6\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a^2\,(8\,A+7\,B+6\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{a^2\,(25\,A+20\,B+18\,C)\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,(8\,A+7\,B+6\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a^2\,(20\,A+25\,B+18\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{60\,d}+\frac{a\,(5\,B+2\,C)\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{20\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{1}{3840\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-240\,(8\,A+7\,B+6\,C)\,\text{Cos}[c+d\,x]^4\,\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(80\,(16\,A+14\,B+15\,C)\,\text{Sin}[d\,x]-240\,(3\,A+2\,B+C)\,\text{Sin}[2\,c+d\,x]+240\,A\,\text{Sin}[c+2\,d\,x]+$$
$$330\,B\,\text{Sin}[c+2\,d\,x]+420\,C\,\text{Sin}[c+2\,d\,x]+240\,A\,\text{Sin}[3\,c+2\,d\,x]+330\,B\,\text{Sin}[3\,c+2\,d\,x]+420\,C\,\text{Sin}[3\,c+2\,d\,x]+$$
$$880\,A\,\text{Sin}[2\,c+3\,d\,x]+800\,B\,\text{Sin}[2\,c+3\,d\,x]+720\,C\,\text{Sin}[2\,c+3\,d\,x]-120\,A\,\text{Sin}[4\,c+3\,d\,x]+$$
$$120\,A\,\text{Sin}[3\,c+4\,d\,x]+105\,B\,\text{Sin}[3\,c+4\,d\,x]+90\,C\,\text{Sin}[3\,c+4\,d\,x]+120\,A\,\text{Sin}[5\,c+4\,d\,x]+105\,B\,\text{Sin}[5\,c+4\,d\,x]+$$
$$\left.90\,C\,\text{Sin}[5\,c+4\,d\,x]+200\,A\,\text{Sin}[4\,c+5\,d\,x]+160\,B\,\text{Sin}[4\,c+5\,d\,x]+144\,C\,\text{Sin}[4\,c+5\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(12\,A+8\,B+7\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{a^2\,(12\,A+8\,B+7\,C)\,\text{Tan}[c+d\,x]}{6\,d}+\frac{a^2\,(12\,A+8\,B+7\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{24\,d}+\frac{(2\,B+C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,\text{Sec}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{1}{384\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,a^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(24\,(12\,A+8\,B+7\,C)\,\text{Cos}[c+d\,x]^4\,\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$\text{Sec}[c]\,(-24\,(6\,A+5\,B+4\,C)\,\text{Sin}[c]+3\,(4\,A+8\,B+15\,C)\,\text{Sin}[d\,x]+12\,A\,\text{Sin}[2\,c+d\,x]+24\,B\,\text{Sin}[2\,c+d\,x]+$$
$$45\,C\,\text{Sin}[2\,c+d\,x]+144\,A\,\text{Sin}[c+2\,d\,x]+136\,B\,\text{Sin}[c+2\,d\,x]+128\,C\,\text{Sin}[c+2\,d\,x]-48\,A\,\text{Sin}[3\,c+2\,d\,x]-$$
$$24\,B\,\text{Sin}[3\,c+2\,d\,x]+12\,A\,\text{Sin}[2\,c+3\,d\,x]+24\,B\,\text{Sin}[2\,c+3\,d\,x]+21\,C\,\text{Sin}[2\,c+3\,d\,x]+12\,A\,\text{Sin}[4\,c+3\,d\,x]+$$
$$\left.24\,B\,\text{Sin}[4\,c+3\,d\,x]+21\,C\,\text{Sin}[4\,c+3\,d\,x]+48\,A\,\text{Sin}[3\,c+4\,d\,x]+40\,B\,\text{Sin}[3\,c+4\,d\,x]+32\,C\,\text{Sin}[3\,c+4\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$a^2\,A\,x+\frac{a^2\,(4\,A+3\,B+2\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(2\,A+3\,B+2\,C)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{a\,(3\,B+2\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{24\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a^2\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg(12\,A\,x-$$

$$\frac{6\,(4\,A+3\,B+2\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{6\,(4\,A+3\,B+2\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+$$

$$\frac{2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{(3\,B+7\,C)\,\mathrm{Cos}\left[\frac{c}{2}\right]-(3\,B+5\,C)\,\mathrm{Sin}\left[\frac{c}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{4\,(3\,A+6\,B+5\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$

$$\frac{(3\,B+7\,C)\,\mathrm{Cos}\left[\frac{c}{2}\right]+(3\,B+5\,C)\,\mathrm{Sin}\left[\frac{c}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(3\,A+6\,B+5\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\left(2\,a^2\,A+a^2\,B\right)\,x+\frac{a^2\,(2\,A+4\,B+3\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{a^2\,(2\,A-2\,B-3\,C)\,\mathrm{Sin}[c+d\,x]}{2\,d}+$$

$$\frac{a\,(B+C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{8\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^2\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,(1+\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg(4\,(2\,A+B)\,x-\frac{2\,(2\,A+4\,B+3\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+$$

$$\frac{2\,(2\,A+4\,B+3\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{4\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+$$

$$\frac{C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(B+2\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$

$$\frac{C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,(B+2\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{1}{2}\,a^2\,(3\,A+4\,B+2\,C)\,x+\frac{a^2\,(B+2\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{a^2\,(3\,A+2\,B-2\,C)\,\mathrm{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{a\,(A-2\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{2\,d}+\frac{A\,\mathrm{Cos}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{16\,d}\,a^2\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\Big(4\,\text{Cos}[d\,x]\,\Big((3\,A+4\,B+2\,C)\,d\,x-2\,(B+2\,C)\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+2\,(B+2\,C)\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+4\,\text{Cos}[2\,c+d\,x]\,\Big((3\,A+4\,B+2\,C)\,d\,x-2\,(B+2\,C)\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+2\,(B+2\,C)\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+A\,\text{Sin}[d\,x]+16\,C\,\text{Sin}[d\,x]+A\,\text{Sin}[2\,c+d\,x]+8\,A\,\text{Sin}[c+2\,d\,x]+4\,B\,\text{Sin}[c+2\,d\,x]+8\,A\,\text{Sin}[3\,c+2\,d\,x]+4\,B\,\text{Sin}[3\,c+2\,d\,x]+A\,\text{Sin}[2\,c+3\,d\,x]+A\,\text{Sin}[4\,c+3\,d\,x]\Big)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{a^3\,(26\,A+23\,B+21\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{16\,d}+\frac{2\,a^3\,(133\,A+119\,B+108\,C)\,\text{Tan}[c+d\,x]}{105\,d}+\frac{a^3\,(26\,A+23\,B+21\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{16\,d}+\frac{a^3\,(133\,A+119\,B+108\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{105\,d}+\frac{a^3\,(154\,A+147\,B+129\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{280\,d}+\frac{a^2\,(3\,A+4\,B+3\,C)\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,(7\,B+3\,C)\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{42\,d}+\frac{C\,\text{Sec}[c+d\,x]^3\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\frac{1}{430\,080\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,a^3\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^6\,(1+\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Big(-6720\,(26\,A+23\,B+21\,C)\,\text{Cos}[c+d\,x]^5\,\Big(\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]\Big)+\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(2240\,(43\,A+41\,B+42\,C)\,\text{Sin}[d\,x]-1120\,(47\,A+37\,B+24\,C)\,\text{Sin}[2\,c+d\,x]+23\,730\,A\,\text{Sin}[c+2\,d\,x]+29\,435\,B\,\text{Sin}[c+2\,d\,x]+36\,225\,C\,\text{Sin}[c+2\,d\,x]+23\,730\,A\,\text{Sin}[3\,c+2\,d\,x]+29\,435\,B\,\text{Sin}[3\,c+2\,d\,x]+36\,225\,C\,\text{Sin}[3\,c+2\,d\,x]+79\,296\,A\,\text{Sin}[2\,c+3\,d\,x]+76\,608\,B\,\text{Sin}[2\,c+3\,d\,x]+72\,576\,C\,\text{Sin}[2\,c+3\,d\,x]-10\,080\,A\,\text{Sin}[4\,c+3\,d\,x]-3360\,B\,\text{Sin}[4\,c+3\,d\,x]+15\,960\,A\,\text{Sin}[3\,c+4\,d\,x]+16\,100\,B\,\text{Sin}[3\,c+4\,d\,x]+14\,700\,C\,\text{Sin}[3\,c+4\,d\,x]+15\,960\,A\,\text{Sin}[5\,c+4\,d\,x]+16\,100\,B\,\text{Sin}[5\,c+4\,d\,x]+14\,700\,C\,\text{Sin}[5\,c+4\,d\,x]+29\,792\,A\,\text{Sin}[4\,c+5\,d\,x]+26\,656\,B\,\text{Sin}[4\,c+5\,d\,x]+24\,192\,C\,\text{Sin}[4\,c+5\,d\,x]+2730\,A\,\text{Sin}[5\,c+6\,d\,x]+2415\,B\,\text{Sin}[5\,c+6\,d\,x]+2205\,C\,\text{Sin}[5\,c+6\,d\,x]+2730\,A\,\text{Sin}[7\,c+6\,d\,x]+2415\,B\,\text{Sin}[7\,c+6\,d\,x]+2205\,C\,\text{Sin}[7\,c+6\,d\,x]+4256\,A\,\text{Sin}[6\,c+7\,d\,x]+3808\,B\,\text{Sin}[6\,c+7\,d\,x]+3456\,C\,\text{Sin}[6\,c+7\,d\,x])\Big)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{a^3\,(30\,A+26\,B+23\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{16\,d}+\frac{a^3\,(45\,A+38\,B+34\,C)\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a^3\,(30\,A+26\,B+23\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{16\,d}+\frac{a^3\,(90\,A+86\,B+73\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{120\,d}+\frac{a^2\,(30\,A+42\,B+31\,C)\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{120\,d}+\frac{a\,(2\,B+C)\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{10\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{6\,d}$$

$$\frac{1}{30720\,d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-480\,(30A+26B+23C)\,\mathrm{Cos}[c+d\,x]^5\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$
$$\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(-160\,(45A+38B+34C)\,\mathrm{Sin}[c]+30\,(38A+50B+75C)\,\mathrm{Sin}[d\,x]+1140\,A\,\mathrm{Sin}[2\,c+d\,x]+$$
$$1500\,B\,\mathrm{Sin}[2\,c+d\,x]+2250\,C\,\mathrm{Sin}[2\,c+d\,x]+8160\,A\,\mathrm{Sin}[c+2\,d\,x]+7680\,B\,\mathrm{Sin}[c+2\,d\,x]+7680\,C\,\mathrm{Sin}[c+2\,d\,x]-$$
$$2640\,A\,\mathrm{Sin}[3\,c+2\,d\,x]-1440\,B\,\mathrm{Sin}[3\,c+2\,d\,x]-480\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+1590\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$1890\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+1955\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+1590\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+1890\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+$$
$$1955\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+4080\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+3648\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+3264\,C\,\mathrm{Sin}[3\,c+4\,d\,x]-$$
$$240\,A\,\mathrm{Sin}[5\,c+4\,d\,x]+450\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+390\,B\,\mathrm{Sin}[4\,c+5\,d\,x]+345\,C\,\mathrm{Sin}[4\,c+5\,d\,x]+450\,A\,\mathrm{Sin}[6\,c+5\,d\,x]+$$
$$\left.390\,B\,\mathrm{Sin}[6\,c+5\,d\,x]+345\,C\,\mathrm{Sin}[6\,c+5\,d\,x]+720\,A\,\mathrm{Sin}[5\,c+6\,d\,x]+608\,B\,\mathrm{Sin}[5\,c+6\,d\,x]+544\,C\,\mathrm{Sin}[5\,c+6\,d\,x]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{a^3\,(20A+15B+13C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{a^3\,(20A+15B+13C)\,\mathrm{Tan}[c+d\,x]}{6\,d}+$$
$$\frac{a^3\,(20A+15B+13C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{24\,d}+\frac{a\,(20A+15B+13C)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{60\,d}+$$
$$\frac{(5B+3C)\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{20\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{1}{7680\,d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,a^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\,(1+\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(240\,(20A+15B+13C)\,\mathrm{Cos}[c+d\,x]^5\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-\right.$$
$$\mathrm{Sec}[c]\,(80\,(34A+30B+29C)\,\mathrm{Sin}[d\,x]-240\,(7A+5B+3C)\,\mathrm{Sin}[2\,c+d\,x]+360\,A\,\mathrm{Sin}[c+2\,d\,x]+$$
$$570\,B\,\mathrm{Sin}[c+2\,d\,x]+750\,C\,\mathrm{Sin}[c+2\,d\,x]+360\,A\,\mathrm{Sin}[3\,c+2\,d\,x]+570\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+750\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$1840\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+1680\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+1520\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-360\,A\,\mathrm{Sin}[4\,c+3\,d\,x]-$$
$$120\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+180\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+225\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+195\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+180\,A\,\mathrm{Sin}[5\,c+4\,d\,x]+$$
$$\left.225\,B\,\mathrm{Sin}[5\,c+4\,d\,x]+195\,C\,\mathrm{Sin}[5\,c+4\,d\,x]+440\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+360\,B\,\mathrm{Sin}[4\,c+5\,d\,x]+304\,C\,\mathrm{Sin}[4\,c+5\,d\,x]\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+a\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$a^3\,A\,x+\frac{a^3\,(28A+20B+15C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+$$
$$\frac{5\,a^3\,(4A+4B+3C)\,\mathrm{Tan}[c+d\,x]}{8\,d}+\frac{a^2\,(12A+20B+15C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{a\,(4B+3C)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{12\,d}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{768\, d\, (A + 2\, C + 2\, B\, \mathrm{Cos}[c + d\, x] + A\, \mathrm{Cos}[2\, (c + d\, x)])}$$

$$a^3\, \mathrm{Cos}[c + d\, x]\, \mathrm{Sec}\left[\frac{1}{2}\, (c + d\, x)\right]^6 (1 + \mathrm{Sec}[c + d\, x])^3 \left(A + B\, \mathrm{Sec}[c + d\, x] + C\, \mathrm{Sec}[c + d\, x]^2\right)$$

$$\left(-24\, (28\, A + 20\, B + 15\, C)\, \mathrm{Cos}[c + d\, x]^4 \left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\, (c + d\, x)\right] - \mathrm{Sin}\left[\frac{1}{2}\, (c + d\, x)\right]\right] - \mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\, (c + d\, x)\right] + \mathrm{Sin}\left[\frac{1}{2}\, (c + d\, x)\right]\right]\right) + \right.$$

$$\mathrm{Sec}[c]\, (72\, A\, d\, x\, \mathrm{Cos}[c] + 48\, A\, d\, x\, \mathrm{Cos}[c + 2\, d\, x] + 48\, A\, d\, x\, \mathrm{Cos}[3\, c + 2\, d\, x] + 12\, A\, d\, x\, \mathrm{Cos}[3\, c + 4\, d\, x] +$$
$$12\, A\, d\, x\, \mathrm{Cos}[5\, c + 4\, d\, x] - 216\, A\, \mathrm{Sin}[c] - 264\, B\, \mathrm{Sin}[c] - 216\, C\, \mathrm{Sin}[c] + 12\, A\, \mathrm{Sin}[d\, x] + 36\, B\, \mathrm{Sin}[d\, x] +$$
$$69\, C\, \mathrm{Sin}[d\, x] + 12\, A\, \mathrm{Sin}[2\, c + d\, x] + 36\, B\, \mathrm{Sin}[2\, c + d\, x] + 69\, C\, \mathrm{Sin}[2\, c + d\, x] + 216\, A\, \mathrm{Sin}[c + 2\, d\, x] +$$
$$280\, B\, \mathrm{Sin}[c + 2\, d\, x] + 264\, C\, \mathrm{Sin}[c + 2\, d\, x] - 72\, A\, \mathrm{Sin}[3\, c + 2\, d\, x] - 72\, B\, \mathrm{Sin}[3\, c + 2\, d\, x] - 24\, C\, \mathrm{Sin}[3\, c + 2\, d\, x] +$$
$$12\, A\, \mathrm{Sin}[2\, c + 3\, d\, x] + 36\, B\, \mathrm{Sin}[2\, c + 3\, d\, x] + 45\, C\, \mathrm{Sin}[2\, c + 3\, d\, x] + 12\, A\, \mathrm{Sin}[4\, c + 3\, d\, x] + 36\, B\, \mathrm{Sin}[4\, c + 3\, d\, x] +$$
$$\left.45\, C\, \mathrm{Sin}[4\, c + 3\, d\, x] + 72\, A\, \mathrm{Sin}[3\, c + 4\, d\, x] + 88\, B\, \mathrm{Sin}[3\, c + 4\, d\, x] + 72\, C\, \mathrm{Sin}[3\, c + 4\, d\, x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c + d\, x]\, (a + a\, \mathrm{Sec}[c + d\, x])^3 \left(A + B\, \mathrm{Sec}[c + d\, x] + C\, \mathrm{Sec}[c + d\, x]^2\right), x, 6, 0\right\}$$

$$\left(3\, a^3\, A + a^3\, B\right) x + \frac{a^3\, (6\, A + 7\, B + 5\, C)\, \mathrm{ArcTanh}[\mathrm{Sin}[c + d\, x]]}{2\, d} -$$
$$\frac{5\, a^3\, (B + C)\, \mathrm{Sin}[c + d\, x]}{2\, d} + \frac{a^2\, (3\, A + 6\, B + 5\, C)\, (a + a\, \mathrm{Sec}[c + d\, x])\, \mathrm{Sin}[c + d\, x]}{3\, d} +$$
$$\frac{a\, (B + C)\, (a + a\, \mathrm{Sec}[c + d\, x])^2\, \mathrm{Sin}[c + d\, x]}{2\, d} + \frac{C\, (a + a\, \mathrm{Sec}[c + d\, x])^3\, \mathrm{Sin}[c + d\, x]}{3\, d}$$

$$\frac{(3A+B)\,x\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{4\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\left((-6A-7B-5C)\,\text{Cos}[c+dx]^5\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\right.$$
$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(8d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\left((6A+7B+5C)\,\text{Cos}[c+dx]^5\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\right.$$
$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(8d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\frac{A\,\text{Cos}[dx]\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sin}[c]}{4d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{A\,\text{Cos}[c]\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sin}[dx]}{4d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{C\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sin}\left[\frac{dx}{2}\right]}{24d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^3}+$$

$$\left(\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\right.$$
$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(3B\,\text{Cos}\left[\frac{c}{2}\right]+10C\,\text{Cos}\left[\frac{c}{2}\right]-3B\,\text{Sin}\left[\frac{c}{2}\right]-8C\,\text{Sin}\left[\frac{c}{2}\right]\right)\right)\Big/$$
$$\left(48d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^2\right)+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(3A\,\text{Sin}\left[\frac{dx}{2}\right]+9B\,\text{Sin}\left[\frac{dx}{2}\right]+11C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{12d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)}+$$

$$\frac{C\,\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sin}\left[\frac{dx}{2}\right]}{24d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^3}+$$

$$\left(\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\right.$$
$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(-3B\,\text{Cos}\left[\frac{c}{2}\right]-10C\,\text{Cos}\left[\frac{c}{2}\right]-3B\,\text{Sin}\left[\frac{c}{2}\right]-8C\,\text{Sin}\left[\frac{c}{2}\right]\right)\right)\Big/$$
$$\left(48d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)^2\right)+$$

$$\frac{\text{Cos}[c+dx]^5\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(3A\,\text{Sin}\left[\frac{dx}{2}\right]+9B\,\text{Sin}\left[\frac{dx}{2}\right]+11C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{12d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{dx}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+dx]^2\,(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{1}{2} a^3 (7 A + 6 B + 2 C) x + \frac{a^3 (2 A + 6 B + 7 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{5 a^3 (A - C) \text{Sin}[c + d x]}{2 d} - \frac{a^2 (A - 2 B - 4 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{2 d} - \frac{a (A - C) (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} + \frac{A \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{2 d}$$

$$\frac{(7 A + 6 B + 2 C) x \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{8 (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \left((-2 A - 6 B - 7 C) \text{Cos}[c + d x]^5 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)\right) \Big/ (8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])) + \left((2 A + 6 B + 7 C) \text{Cos}[c + d x]^5 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)\right) \Big/ (8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])) + \frac{(3 A + B) \text{Cos}[d x] \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[c]}{4 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \frac{A \text{Cos}[2 d x] \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 c]}{16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \frac{(3 A + B) \text{Cos}[c] \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[d x]}{4 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \frac{A \text{Cos}[2 c] \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 d x]}{16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \frac{C \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} + \frac{\text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(B \text{Sin}\left[\frac{d x}{2}\right] + 3 C \text{Sin}\left[\frac{d x}{2}\right]\right)}{4 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] - \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)} - \frac{C \text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} + \frac{\text{Cos}[c + d x]^5 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^6 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(B \text{Sin}\left[\frac{d x}{2}\right] + 3 C \text{Sin}\left[\frac{d x}{2}\right]\right)}{4 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] + \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^3 (a + a \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{1}{2} a^3 (5 A + 7 B + 6 C) x + \frac{a^3 (B + 3 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{d} + \frac{5 a^3 (A + B) \text{Sin}[c + d x]}{2 d} - \frac{a^2 (5 A + 3 B - 6 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{6 d} + \frac{a (A + B) \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} + \frac{A \text{Cos}[c + d x]^2 (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{3 d}$$

$$\frac{1}{48\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a^3\,\mathrm{Cos}[c+d\,x]^2\,(1+\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^6\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg(6\,(5\,A+7\,B+6\,C)\,x-$$

$$\frac{12\,(B+3\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{12\,(B+3\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+$$

$$\frac{3\,(15\,A+4\,(3\,B+C))\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{3\,(3\,A+B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{d}+$$

$$\frac{3\,(15\,A+4\,(3\,B+C))\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{3\,(3\,A+B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{d}+$$

$$\frac{12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\Bigg)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{a^4\,(56\,A+49\,B+44\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{16\,d}+\frac{a^4\,(581\,A+504\,B+454\,C)\,\mathrm{Tan}[c+d\,x]}{105\,d}+$$

$$\frac{a^4\,(56\,A+49\,B+44\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{16\,d}+\frac{a^4\,(1232\,A+1113\,B+988\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{840\,d}+$$

$$\frac{a^3\,(504\,A+511\,B+436\,C)\,\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{840\,d}+$$

$$\frac{a^2\,(14\,A+21\,B+16\,C)\,\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{70\,d}+$$

$$\frac{a\,(7\,B+4\,C)\,\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{42\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^2\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Tan}[c+d\,x]}{7\,d}$$

$$\frac{1}{860160\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a^4\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^8\,(1+\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-6720\,(56\,A+49\,B+44\,C)\,\mathrm{Cos}[c+d\,x]^6\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$

$$\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(2240\,(91\,A+84\,B+83\,C)\,\mathrm{Sin}[d\,x]-560\,(217\,A+168\,B+122\,C)\,\mathrm{Sin}[2\,c+d\,x]+42840\,A\,\mathrm{Sin}[c+2\,d\,x]+$$
$$53165\,B\,\mathrm{Sin}[c+2\,d\,x]+65660\,C\,\mathrm{Sin}[c+2\,d\,x]+42840\,A\,\mathrm{Sin}[3\,c+2\,d\,x]+53165\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$65660\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+164976\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+155904\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+149184\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-$$
$$30240\,A\,\mathrm{Sin}[4\,c+3\,d\,x]-13440\,B\,\mathrm{Sin}[4\,c+3\,d\,x]-3360\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+30240\,A\,\mathrm{Sin}[3\,c+4\,d\,x]+$$
$$32060\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+30800\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+30240\,A\,\mathrm{Sin}[5\,c+4\,d\,x]+32060\,B\,\mathrm{Sin}[5\,c+4\,d\,x]+$$
$$30800\,C\,\mathrm{Sin}[5\,c+4\,d\,x]+63392\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+56448\,B\,\mathrm{Sin}[4\,c+5\,d\,x]+50848\,C\,\mathrm{Sin}[4\,c+5\,d\,x]-$$
$$1680\,A\,\mathrm{Sin}[6\,c+5\,d\,x]+5880\,A\,\mathrm{Sin}[5\,c+6\,d\,x]+5145\,B\,\mathrm{Sin}[5\,c+6\,d\,x]+4620\,C\,\mathrm{Sin}[5\,c+6\,d\,x]+5880\,A\,\mathrm{Sin}[7\,c+6\,d\,x]+$$
$$5145\,B\,\mathrm{Sin}[7\,c+6\,d\,x]+4620\,C\,\mathrm{Sin}[7\,c+6\,d\,x]+9296\,A\,\mathrm{Sin}[6\,c+7\,d\,x]+8064\,B\,\mathrm{Sin}[6\,c+7\,d\,x]+7264\,C\,\mathrm{Sin}[6\,c+7\,d\,x])\Bigg)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]\,(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{7 a^4 (10 A+8 B+7 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{16 d}+\frac{7 a^4 (10 A+8 B+7 C) \text{Tan}[c+d x]}{12 d}+\frac{7 a^4 (10 A+8 B+7 C) \text{Sec}[c+d x] \text{Tan}[c+d x]}{48 d}+$$
$$\frac{7 a^2 (10 A+8 B+7 C) (a+a \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{120 d}+\frac{a (10 A+8 B+7 C) (a+a \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{40 d}+$$
$$\frac{(3 B+2 C) (a+a \text{Sec}[c+d x])^4 \text{Tan}[c+d x]}{15 d}+\frac{C \text{Sec}[c+d x] (a+a \text{Sec}[c+d x])^4 \text{Tan}[c+d x]}{6 d}$$
$$-\frac{1}{61440 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 (c+d x)])}$$
$$a^4 \text{Sec}\left[\frac{1}{2} (c+d x)\right]^8 (1+\text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$
$$\left(3360 (10 A+8 B+7 C) \text{Cos}[c+d x]^6 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]\right)-\right.$$
$$\text{Sec}[c] (-160 (100 A+83 B+72 C) \text{Sin}[c]+30 (62 A+88 B+125 C) \text{Sin}[d x]+1860 A \text{Sin}[2 c+d x]+2640 B \text{Sin}[2 c+d x]+$$
$$3750 C \text{Sin}[2 c+d x]+17280 A \text{Sin}[c+2 d x]+15840 B \text{Sin}[c+2 d x]+15360 C \text{Sin}[c+2 d x]-6720 A \text{Sin}[3 c+2 d x]-$$
$$4080 B \text{Sin}[3 c+2 d x]-1920 C \text{Sin}[3 c+2 d x]+2670 A \text{Sin}[2 c+3 d x]+3480 B \text{Sin}[2 c+3 d x]+$$
$$3845 C \text{Sin}[2 c+3 d x]+2670 A \text{Sin}[4 c+3 d x]+3480 B \text{Sin}[4 c+3 d x]+3845 C \text{Sin}[4 c+3 d x]+$$
$$8640 A \text{Sin}[3 c+4 d x]+7728 B \text{Sin}[3 c+4 d x]+6912 C \text{Sin}[3 c+4 d x]-960 A \text{Sin}[5 c+4 d x]-240 B \text{Sin}[5 c+4 d x]+$$
$$810 A \text{Sin}[4 c+5 d x]+840 B \text{Sin}[4 c+5 d x]+735 C \text{Sin}[4 c+5 d x]+810 A \text{Sin}[6 c+5 d x]+840 B \text{Sin}[6 c+5 d x]+$$
$$\left.735 C \text{Sin}[6 c+5 d x]+1600 A \text{Sin}[5 c+6 d x]+1328 B \text{Sin}[5 c+6 d x]+1152 C \text{Sin}[5 c+6 d x])\right)$$

Incorrect antiderivative:

$$\left\{(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$a^4 A x+\frac{a^4 (48 A+35 B+28 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{8 d}+\frac{a^4 (40 A+35 B+28 C) \text{Tan}[c+d x]}{8 d}+$$
$$\frac{a^3 (32 A+35 B+28 C) (a+a \text{Sec}[c+d x]) \text{Tan}[c+d x]}{24 d}+\frac{a^2 (20 A+35 B+28 C) (a+a \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{60 d}+$$
$$\frac{a (5 B+4 C) (a+a \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{20 d}+\frac{C (a+a \text{Sec}[c+d x])^4 \text{Tan}[c+d x]}{5 d}$$
$$\frac{1}{15360 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 (c+d x)])}$$
$$a^4 \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2} (c+d x)\right]^8 (1+\text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$
$$\left(-240 (48 A+35 B+28 C) \text{Cos}[c+d x]^5 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]\right)+\right.$$
$$\text{Sec}[c] (600 A d x \text{Cos}[d x]+600 A d x \text{Cos}[2 c+d x]+300 A d x \text{Cos}[2 c+3 d x]+300 A d x \text{Cos}[4 c+3 d x]+$$
$$60 A d x \text{Cos}[4 c+5 d x]+60 A d x \text{Cos}[6 c+5 d x]+4880 A \text{Sin}[d x]+5120 B \text{Sin}[d x]+4720 C \text{Sin}[d x]-$$
$$3120 A \text{Sin}[2 c+d x]-2880 B \text{Sin}[2 c+d x]-1920 C \text{Sin}[2 c+d x]+480 A \text{Sin}[c+2 d x]+930 B \text{Sin}[c+2 d x]+$$
$$1320 C \text{Sin}[c+2 d x]+480 A \text{Sin}[3 c+2 d x]+930 B \text{Sin}[3 c+2 d x]+1320 C \text{Sin}[3 c+2 d x]+3280 A \text{Sin}[2 c+3 d x]+$$
$$3520 B \text{Sin}[2 c+3 d x]+3200 C \text{Sin}[2 c+3 d x]-720 A \text{Sin}[4 c+3 d x]-480 B \text{Sin}[4 c+3 d x]-$$
$$120 C \text{Sin}[4 c+3 d x]+240 A \text{Sin}[3 c+4 d x]+405 B \text{Sin}[3 c+4 d x]+420 C \text{Sin}[3 c+4 d x]+240 A \text{Sin}[5 c+4 d x]+$$
$$\left.405 B \text{Sin}[5 c+4 d x]+420 C \text{Sin}[5 c+4 d x]+800 A \text{Sin}[4 c+5 d x]+800 B \text{Sin}[4 c+5 d x]+664 C \text{Sin}[4 c+5 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x] (a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\left(4 a^4 A + a^4 B\right) x + \frac{a^4 (52 A + 48 B + 35 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} - \frac{5 a^4 (4 A + 8 B + 7 C) \text{Sin}[c + d x]}{8 d} + \frac{a^3 (36 A + 44 B + 35 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{12 d} + \frac{a^2 (4 A + 8 B + 7 C) (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{8 d} + \frac{a (B + C) (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{3 d} + \frac{C (a + a \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{4 d}$$

$$\frac{1}{1536 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)])} a^4 \text{Cos}[c + d x]^2 \text{Sec}\left[\frac{1}{2} (c + d x)\right]^8 (1 + \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(-24 (52 A + 48 B + 35 C) \text{Cos}[c + d x]^4 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + \text{Sec}[c] (72 (4 A + B) d x \text{Cos}[c] + 48 (4 A + B) d x \text{Cos}[c + 2 d x] + 192 A d x \text{Cos}[3 c + 2 d x] + 48 B d x \text{Cos}[3 c + 2 d x] + 48 A d x \text{Cos}[3 c + 4 d x] + 12 B d x \text{Cos}[3 c + 4 d x] + 48 A d x \text{Cos}[5 c + 4 d x] + 12 B d x \text{Cos}[5 c + 4 d x] - 288 A \text{Sin}[c] - 480 B \text{Sin}[c] - 480 C \text{Sin}[c] + 24 A \text{Sin}[d x] + 48 B \text{Sin}[d x] + 105 C \text{Sin}[d x] + 24 A \text{Sin}[2 c + d x] + 48 B \text{Sin}[2 c + d x] + 105 C \text{Sin}[2 c + d x] + 288 A \text{Sin}[c + 2 d x] + 496 B \text{Sin}[c + 2 d x] + 544 C \text{Sin}[c + 2 d x] - 96 A \text{Sin}[3 c + 2 d x] - 144 B \text{Sin}[3 c + 2 d x] - 96 C \text{Sin}[3 c + 2 d x] + 30 A \text{Sin}[2 c + 3 d x] + 48 B \text{Sin}[2 c + 3 d x] + 81 C \text{Sin}[2 c + 3 d x] + 30 A \text{Sin}[4 c + 3 d x] + 48 B \text{Sin}[4 c + 3 d x] + 81 C \text{Sin}[4 c + 3 d x] + 96 A \text{Sin}[3 c + 4 d x] + 160 B \text{Sin}[3 c + 4 d x] + 160 C \text{Sin}[3 c + 4 d x] + 6 A \text{Sin}[4 c + 5 d x] + 6 A \text{Sin}[6 c + 5 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^2 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{2} a^4 (13 A + 8 B + 2 C) x + \frac{a^4 (8 A + 13 B + 12 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{5 a^4 (A - B - 2 C) \text{Sin}[c + d x]}{2 d} + \frac{a^3 (3 A + 18 B + 22 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{6 d} - \frac{a^2 (A - B - 2 C) (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} - \frac{a (3 A - 2 C) (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{6 d} + \frac{A \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{2 d}$$

$$\frac{1}{1536 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)])} a^4 \text{Cos}[c + d x]^3 \text{Sec}\left[\frac{1}{2} (c + d x)\right]^8 (1 + \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(-96 (8 A + 13 B + 12 C) \text{Cos}[c + d x]^3 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + \text{Sec}[c] (36 (13 A + 8 B + 2 C) d x \text{Cos}[d x] + 36 (13 A + 8 B + 2 C) d x \text{Cos}[2 c + d x] + 156 A d x \text{Cos}[2 c + 3 d x] + 96 B d x \text{Cos}[2 c + 3 d x] + 24 C d x \text{Cos}[2 c + 3 d x] + 156 A d x \text{Cos}[4 c + 3 d x] + 96 B d x \text{Cos}[4 c + 3 d x] + 24 C d x \text{Cos}[4 c + 3 d x] + 102 A \text{Sin}[d x] + 384 B \text{Sin}[d x] + 672 C \text{Sin}[d x] - 42 A \text{Sin}[2 c + d x] - 192 B \text{Sin}[2 c + d x] - 288 C \text{Sin}[2 c + d x] + 96 A \text{Sin}[c + 2 d x] + 48 B \text{Sin}[c + 2 d x] + 96 C \text{Sin}[c + 2 d x] + 96 A \text{Sin}[3 c + 2 d x] + 48 B \text{Sin}[3 c + 2 d x] + 96 C \text{Sin}[3 c + 2 d x] + 57 A \text{Sin}[2 c + 3 d x] + 192 B \text{Sin}[2 c + 3 d x] + 320 C \text{Sin}[2 c + 3 d x] + 9 A \text{Sin}[4 c + 3 d x] + 48 A \text{Sin}[3 c + 4 d x] + 12 B \text{Sin}[3 c + 4 d x] + 48 A \text{Sin}[5 c + 4 d x] + 12 B \text{Sin}[5 c + 4 d x] + 3 A \text{Sin}[4 c + 5 d x] + 3 A \text{Sin}[6 c + 5 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^3 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{2} a^4 (12 A + 13 B + 8 C) x + \frac{a^4 (2 A + 8 B + 13 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{5 a^4 (2 A + B - C) \text{Sin}[c + d x]}{2 d} -$$

$$\frac{a^3 (8 A - 3 B - 18 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{6 d} - \frac{a^2 (2 A + B - C) (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} +$$

$$\frac{a (4 A + 3 B) \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{6 d} + \frac{A \text{Cos}[c + d x]^2 (a + a \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{3 d}$$

$$\frac{(12 A + 13 B + 8 C) x \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{16 (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\left((-2 A - 8 B - 13 C) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)\right) \Big/ (16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])) +$$

$$\left((2 A + 8 B + 13 C) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)\right) \Big/ (16 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])) +$$

$$\frac{(27 A + 16 B + 4 C) \text{Cos}[d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[c]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(4 A + B) \text{Cos}[2 d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 c]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[3 d x] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 c]}{96 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(27 A + 16 B + 4 C) \text{Cos}[c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[d x]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(4 A + B) \text{Cos}[2 c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 d x]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[3 c] \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 d x]}{96 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} +$$

$$\frac{\text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(B \text{Sin}\left[\frac{d x}{2}\right] + 4 C \text{Sin}\left[\frac{d x}{2}\right]\right)}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] - \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)} -$$

$$\frac{C \text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)^2} +$$

$$\frac{\text{Cos}[c + d x]^6 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(B \text{Sin}\left[\frac{d x}{2}\right] + 4 C \text{Sin}\left[\frac{d x}{2}\right]\right)}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] + \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)}$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c + d x]^4 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{8} a^4 (35 A + 48 B + 52 C) x + \frac{a^4 (B + 4 C) \text{ArcTanh}[\text{Sin}[c + d x]]}{d} + \frac{5 a^4 (7 A + 8 B + 4 C) \text{Sin}[c + d x]}{8 d} -$$

$$\frac{a^3 (35 A + 32 B - 12 C) (a + a \text{Sec}[c + d x]) \text{Sin}[c + d x]}{24 d} + \frac{a^2 (7 A + 8 B + 4 C) \text{Cos}[c + d x] (a + a \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{8 d} +$$

$$\frac{a (A + B) \text{Cos}[c + d x]^2 (a + a \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{3 d} + \frac{A \text{Cos}[c + d x]^3 (a + a \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{4 d}$$

$$a^4 \left(\frac{(35 A + 48 B + 52 C) x \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{64 (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} + \right.$$

$$\frac{(-B - 4 C) \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(B + 4 C) \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(28 A + 27 B + 16 C) \text{Cos}[d x] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[c]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(7 A + 4 B + C) \text{Cos}[2 d x] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 c]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(4 A + B) \text{Cos}[3 d x] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 c]}{96 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[4 d x] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[4 c]}{256 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(28 A + 27 B + 16 C) \text{Cos}[c] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[d x]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(7 A + 4 B + C) \text{Cos}[2 c] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[2 d x]}{32 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{(4 A + B) \text{Cos}[3 c] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[3 d x]}{96 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{A \text{Cos}[4 c] \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}[4 d x]}{256 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x])} +$$

$$\frac{C \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] - \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)} +$$

$$\left. \frac{C \text{Cos}[c + d x]^2 (1 + \text{Cos}[c + d x])^4 \text{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{8 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]) \left(\text{Cos}\left[\frac{c}{2}\right] + \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right)} \right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^8 (a + a \text{Sec}[c + d x])^4 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 9, 0\right\}$$

$$\frac{1}{128} a^4 (323 A + 352 B + 392 C) x + \frac{2 a^4 (208 A + 227 B + 252 C) \operatorname{Sin}[c + d x]}{105 d} +$$

$$\frac{a^4 (323 A + 352 B + 392 C) \operatorname{Cos}[c + d x] \operatorname{Sin}[c + d x]}{128 d} + \frac{a^4 (208 A + 227 B + 252 C) \operatorname{Cos}[c + d x]^2 \operatorname{Sin}[c + d x]}{105 d} +$$

$$\frac{a^4 (2007 A + 2208 B + 2408 C) \operatorname{Cos}[c + d x]^3 \operatorname{Sin}[c + d x]}{2240 d} + \frac{7 a^3 (7 A + 8 B + 8 C) \operatorname{Cos}[c + d x]^4 (a + a \operatorname{Sec}[c + d x]) \operatorname{Sin}[c + d x]}{120 d} +$$

$$\frac{a^2 (61 A + 80 B + 56 C) \operatorname{Cos}[c + d x]^5 (a + a \operatorname{Sec}[c + d x])^2 \operatorname{Sin}[c + d x]}{336 d} +$$

$$\frac{a (A + 2 B) \operatorname{Cos}[c + d x]^6 (a + a \operatorname{Sec}[c + d x])^3 \operatorname{Sin}[c + d x]}{14 d} + \frac{A \operatorname{Cos}[c + d x]^7 (a + a \operatorname{Sec}[c + d x])^4 \operatorname{Sin}[c + d x]}{8 d}$$

$$\frac{49 A x \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right)}{256 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{49 C x \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right)}{128 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{9 A \operatorname{Cos}[d x] \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \operatorname{Sin}[c]}{128 d (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{9 A \operatorname{Cos}[5 d x] \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \operatorname{Sin}[5 c]}{640 d (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{9 A \operatorname{Cos}[c] \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \operatorname{Sin}[d x]}{128 d (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{11 A \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[d x] \operatorname{Sin}[c]}{d} + \frac{\operatorname{Cos}[c] \operatorname{Sin}[d x]}{d}\right)}{32 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{49 B \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[d x] \operatorname{Sin}[c]}{d} + \frac{\operatorname{Cos}[c] \operatorname{Sin}[d x]}{d}\right)}{128 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{11 C \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[d x] \operatorname{Sin}[c]}{d} + \frac{\operatorname{Cos}[c] \operatorname{Sin}[d x]}{d}\right)}{16 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{225 A \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{2 d} + \frac{\operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{2 d}\right)}{512 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{127 C \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{2 d} + \frac{\operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{2 d}\right)}{256 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{9 A \operatorname{Cos}[c + d x]^6 \operatorname{Sec}\left[\frac{c}{2} + \frac{d x}{2}\right]^8 (a + a \operatorname{Sec}[c + d x])^4 \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \left(\frac{\operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{3 d} + \frac{\operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{3 d}\right)}{64 (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])} +$$

$$\frac{9\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{3\,d}+\frac{\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{3\,d}\right)}{32\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{15\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{4\,d}+\frac{\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{4\,d}\right)}{256\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{15\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{4\,d}+\frac{\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{4\,d}\right)}{128\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{9\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[5\,d\,x]}{640\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{5\,d}+\frac{\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{5\,d}\right)}{64\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{5\,d}+\frac{\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{5\,d}\right)}{32\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[6\,d\,x]\,\mathrm{Sin}[6\,c]}{6\,d}+\frac{\mathrm{Cos}[6\,c]\,\mathrm{Sin}[6\,d\,x]}{6\,d}\right)}{512\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{\mathrm{Cos}[6\,d\,x]\,\mathrm{Sin}[6\,c]}{6\,d}+\frac{\mathrm{Cos}[6\,c]\,\mathrm{Sin}[6\,d\,x]}{6\,d}\right)}{256\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{9\,B\,\mathrm{Cos}[c+d\,x]^9\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]}{32\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Cos}[2\,(c+d\,x)]^3\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[2\,(c+d\,x)]}{1024\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{11\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(2\,(c+d\,x)+\mathrm{Sin}[2\,(c+d\,x)]\right)}{64\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{11\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(3\,\mathrm{Sin}[c+d\,x]+\mathrm{Sin}[3\,(c+d\,x)]\right)}{192\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{127\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(3\,\mathrm{Sin}[c+d\,x]+\mathrm{Sin}[3\,(c+d\,x)]\right)}{1536\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{B\,\mathrm{Cos}[c+d\,x]^9\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-3\,\mathrm{Sin}[c+d\,x]+2\,\mathrm{Sin}[3\,(c+d\,x)]\right)}{96\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{127\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{x}{2}+\frac{\mathrm{Sin}[4\,(c+d\,x)]}{8\,d}\right)}{512\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,(5\,\mathrm{Sin}[3\,(c+d\,x)]+3\,\mathrm{Sin}[5\,(c+d\,x)])}{256\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{5\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,(3\,\mathrm{Sin}[2\,(c+d\,x)]+\mathrm{Sin}[6\,(c+d\,x)])}{1024\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,(7\,\mathrm{Sin}[3\,(c+d\,x)]+3\,\mathrm{Sin}[7\,(c+d\,x)])}{2688\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,(7\,\mathrm{Sin}[5\,(c+d\,x)]+5\,\mathrm{Sin}[7\,(c+d\,x)])}{17\,920\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+a\,\mathrm{Sec}[c+d\,x]},\ x,\ 6,\ 0\right\}$$

$$\frac{3\,(4\,A-4\,B+5\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,a\,d}-\frac{2\,(3\,A-4\,B+4\,C)\,\mathrm{Tan}[c+d\,x]}{3\,a\,d}+\frac{3\,(4\,A-4\,B+5\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,a\,d}-$$

$$\frac{(3\,A-4\,B+4\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,a\,d}+\frac{(4\,A-4\,B+5\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{4\,a\,d}-\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{3\,(4\,A-4\,B+5\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}+$$

$$\frac{3\,(4\,A-4\,B+5\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}+$$

$$\frac{1}{192\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Big(-60\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+108\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-75\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-60\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+124\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-91\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+$$

$$204\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-252\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+219\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-60\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+12\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+21\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+$$

$$84\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-132\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+165\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+36\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+28\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$

$$5\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+36\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-36\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+69\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+132\,A\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-$$

$$132\,B\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+165\,C\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-156\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+220\,B\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-211\,C\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-$$

$$60\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+124\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-115\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-60\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+60\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-$$

$$51\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+36\,A\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-36\,B\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+45\,C\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-12\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$

$$28\,B\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-19\,C\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+12\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+5\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$

$$12\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-12\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+21\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+36\,A\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-36\,B\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+$$

$$45\,C\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-48\,A\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+64\,B\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-64\,C\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-24\,A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+$$

$$40\,B\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-40\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-24\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+24\,B\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-24\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{a+a \text{Sec}[c+d x]}, x, 5, 0\right\}$$

$$-\frac{(2 A-3 B+3 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a d}+\frac{2 (3 A-3 B+4 C) \text{Tan}[c+d x]}{3 a d}-\frac{(2 A-3 B+3 C) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a d}+\frac{(3 A-3 B+4 C) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 a d}-\frac{(A-B+C) \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{24 a d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 (c+d x)]) (1+\text{Sec}[c+d x])} \text{Cos}\left[\frac{1}{2} (c+d x)\right] \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$
$$\left(48 (2 A-3 B+3 C) \text{Cos}\left[\frac{1}{2} (c+d x)\right] \text{Cos}[c+d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\right.$$
$$48 (2 A-3 B+3 C) \text{Cos}\left[\frac{1}{2} (c+d x)\right] \text{Cos}[c+d x] \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$
$$\text{Sec}\left[\frac{c}{2}\right] \text{Sec}[c] \text{Sec}[c+d x]^2 \left(6 (-A+B+C) \text{Sin}\left[\frac{d x}{2}\right]+3 (10 A-9 B+13 C) \text{Sin}\left[\frac{3 d x}{2}\right]-12 A \text{Sin}\left[c-\frac{d x}{2}\right]+\right.$$
$$12 B \text{Sin}\left[c-\frac{d x}{2}\right]-24 C \text{Sin}\left[c-\frac{d x}{2}\right]-6 A \text{Sin}\left[c+\frac{d x}{2}\right]+6 B \text{Sin}\left[c+\frac{d x}{2}\right]-6 C \text{Sin}\left[c+\frac{d x}{2}\right]-24 A \text{Sin}\left[2 c+\frac{d x}{2}\right]+$$
$$24 B \text{Sin}\left[2 c+\frac{d x}{2}\right]-24 C \text{Sin}\left[2 c+\frac{d x}{2}\right]+12 A \text{Sin}\left[c+\frac{3 d x}{2}\right]-9 B \text{Sin}\left[c+\frac{3 d x}{2}\right]+21 C \text{Sin}\left[c+\frac{3 d x}{2}\right]+$$
$$12 A \text{Sin}\left[2 c+\frac{3 d x}{2}\right]-9 B \text{Sin}\left[2 c+\frac{3 d x}{2}\right]+9 C \text{Sin}\left[2 c+\frac{3 d x}{2}\right]-6 A \text{Sin}\left[3 c+\frac{3 d x}{2}\right]+9 B \text{Sin}\left[3 c+\frac{3 d x}{2}\right]-$$
$$9 C \text{Sin}\left[3 c+\frac{3 d x}{2}\right]+6 A \text{Sin}\left[c+\frac{5 d x}{2}\right]-3 B \text{Sin}\left[c+\frac{5 d x}{2}\right]+7 C \text{Sin}\left[c+\frac{5 d x}{2}\right]+3 B \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+$$
$$C \text{Sin}\left[2 c+\frac{5 d x}{2}\right]+3 B \text{Sin}\left[3 c+\frac{5 d x}{2}\right]-3 C \text{Sin}\left[3 c+\frac{5 d x}{2}\right]-6 A \text{Sin}\left[4 c+\frac{5 d x}{2}\right]+9 B \text{Sin}\left[4 c+\frac{5 d x}{2}\right]-$$
$$9 C \text{Sin}\left[4 c+\frac{5 d x}{2}\right]+12 A \text{Sin}\left[2 c+\frac{7 d x}{2}\right]-12 B \text{Sin}\left[2 c+\frac{7 d x}{2}\right]+16 C \text{Sin}\left[2 c+\frac{7 d x}{2}\right]+6 A \text{Sin}\left[3 c+\frac{7 d x}{2}\right]-$$
$$\left.\left.6 B \text{Sin}\left[3 c+\frac{7 d x}{2}\right]+10 C \text{Sin}\left[3 c+\frac{7 d x}{2}\right]+6 A \text{Sin}\left[4 c+\frac{7 d x}{2}\right]-6 B \text{Sin}\left[4 c+\frac{7 d x}{2}\right]+6 C \text{Sin}\left[4 c+\frac{7 d x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^2 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{a+a \text{Sec}[c+d x]}, x, 4, 0\right\}$$

$$\frac{(2 A-2 B+3 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 a d}-\frac{(A-2 B+2 C) \text{Tan}[c+d x]}{a d}+\frac{(2 A-2 B+3 C) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 a d}-\frac{(A-B+C) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{d (a+a \text{Sec}[c+d x])}$$

$$\frac{1}{a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])}$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+\right.$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left((-4\,A+4\,B-6\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.$$

$$4\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\left.\left.4\,(B-C)\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]+\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{(B-C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}+\frac{(A-B+2\,C)\,\text{Tan}[c+d\,x]}{a\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(4\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left((A-B+C)\,\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+\right.\right.$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-(B-C)\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-\right.$$

$$\left.\left.\left.(C+2\,(A-B+C)\,\text{Cos}[c])\,\text{Sec}[c]\,\text{Sec}\left[\frac{3\,c}{2}\right]\text{Sin}\left[\frac{c}{2}\right]+C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]\right)\right)\right)\Big/$$

$$(a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$\frac{A\,x}{a}+\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a\,d}-\frac{(A-B+C)\,\text{Tan}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{a\,d\,(1+\text{Sec}[c+d\,x])}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c+d\,x]$$

$$\left(\text{Cos}\left[\frac{d\,x}{2}\right]\left(A\,d\,x-C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\text{Cos}\left[c+\frac{d\,x}{2}\right]\right.$$

$$\left.\left(A\,d\,x-C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-2\,(A-B+C)\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,3,\,0\right\}$$

$$-\frac{(A-B)\,x}{a}+\frac{(2\,A-B+C)\,\text{Sin}[c+d\,x]}{a\,d}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,a\,d}\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-2\,(A-B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-2\,(A-B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+5\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-4\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+4\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$-\frac{(3\,A-3\,B+2\,C)\,x}{2\,a}+\frac{2\,(4\,A-3\,B+3\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d}-\frac{(3\,A-3\,B+2\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a\,d}+\frac{(4\,A-3\,B+3\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{24\,a\,d\,(1+\text{Sec}[c+d\,x])}\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c+d\,x]\left(-12\,(3\,A-3\,B+2\,C)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-12\,(3\,A-3\,B+2\,C)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+69\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-60\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+60\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+21\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-12\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+12\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+18\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-9\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+12\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+18\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-9\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+12\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-2\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+3\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-2\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+3\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$-\frac{(4\,A-7\,B+10\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,a^2\,d}+\frac{2\,(5\,A-8\,B+12\,C)\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-\frac{(4\,A-7\,B+10\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,a^2\,d}+\frac{(5\,A-8\,B+12\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(4\,A-7\,B+10\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{48 a^2 d (A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2(c+dx)])(1+\operatorname{Sec}[c+dx])^2}\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]$$
$$\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\left(192(4A-7B+10C)\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^3\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-\right.$$
$$192(4A-7B+10C)\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^3\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+$$
$$\operatorname{Sec}\left[\frac{c}{2}\right]\operatorname{Sec}[c]\operatorname{Sec}[c+dx]^3\left((-48A+45B-6C)\operatorname{Sin}\left[\frac{dx}{2}\right]+(132A-201B+310C)\operatorname{Sin}\left[\frac{3dx}{2}\right]-\right.$$
$$120A\operatorname{Sin}\left[c-\frac{dx}{2}\right]+195B\operatorname{Sin}\left[c-\frac{dx}{2}\right]-306C\operatorname{Sin}\left[c-\frac{dx}{2}\right]+48A\operatorname{Sin}\left[c+\frac{dx}{2}\right]-51B\operatorname{Sin}\left[c+\frac{dx}{2}\right]+$$
$$42C\operatorname{Sin}\left[c+\frac{dx}{2}\right]-120A\operatorname{Sin}\left[2c+\frac{dx}{2}\right]+189B\operatorname{Sin}\left[2c+\frac{dx}{2}\right]-270C\operatorname{Sin}\left[2c+\frac{dx}{2}\right]-8A\operatorname{Sin}\left[c+\frac{3dx}{2}\right]-$$
$$B\operatorname{Sin}\left[c+\frac{3dx}{2}\right]+50C\operatorname{Sin}\left[c+\frac{3dx}{2}\right]+72A\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]-81B\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]+90C\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]-$$
$$68A\operatorname{Sin}\left[3c+\frac{3dx}{2}\right]+119B\operatorname{Sin}\left[3c+\frac{3dx}{2}\right]-170C\operatorname{Sin}\left[3c+\frac{3dx}{2}\right]+84A\operatorname{Sin}\left[c+\frac{5dx}{2}\right]-129B\operatorname{Sin}\left[c+\frac{5dx}{2}\right]+$$
$$198C\operatorname{Sin}\left[c+\frac{5dx}{2}\right]-9B\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]+42C\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]+48A\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]-57B\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]+$$
$$66C\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]-36A\operatorname{Sin}\left[4c+\frac{5dx}{2}\right]+63B\operatorname{Sin}\left[4c+\frac{5dx}{2}\right]-90C\operatorname{Sin}\left[4c+\frac{5dx}{2}\right]+48A\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]-$$
$$75B\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]+114C\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]+6A\operatorname{Sin}\left[3c+\frac{7dx}{2}\right]-15B\operatorname{Sin}\left[3c+\frac{7dx}{2}\right]+36C\operatorname{Sin}\left[3c+\frac{7dx}{2}\right]+$$
$$30A\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]-39B\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]+48C\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]-12A\operatorname{Sin}\left[5c+\frac{7dx}{2}\right]+21B\operatorname{Sin}\left[5c+\frac{7dx}{2}\right]-$$
$$30C\operatorname{Sin}\left[5c+\frac{7dx}{2}\right]+20A\operatorname{Sin}\left[3c+\frac{9dx}{2}\right]-32B\operatorname{Sin}\left[3c+\frac{9dx}{2}\right]+48C\operatorname{Sin}\left[3c+\frac{9dx}{2}\right]+6A\operatorname{Sin}\left[4c+\frac{9dx}{2}\right]-$$
$$\left.\left.12B\operatorname{Sin}\left[4c+\frac{9dx}{2}\right]+22C\operatorname{Sin}\left[4c+\frac{9dx}{2}\right]+14A\operatorname{Sin}\left[5c+\frac{9dx}{2}\right]-20B\operatorname{Sin}\left[5c+\frac{9dx}{2}\right]+26C\operatorname{Sin}\left[5c+\frac{9dx}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+dx]^3\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{(a+a\operatorname{Sec}[c+dx])^2},\ x,\ 5,\ 0\right\}$$

$$\frac{(2A-4B+7C)\operatorname{ArcTanh}[\operatorname{Sin}[c+dx]]}{2a^2d}-\frac{2(2A-5B+8C)\operatorname{Tan}[c+dx]}{3a^2d}+\frac{(2A-4B+7C)\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]}{2a^2d}-$$
$$\frac{(A-B+C)\operatorname{Sec}[c+dx]^3\operatorname{Tan}[c+dx]}{3d(a+a\operatorname{Sec}[c+dx])^2}-\frac{(2A-5B+8C)\operatorname{Sec}[c+dx]^2\operatorname{Tan}[c+dx]}{3ad(a+a\operatorname{Sec}[c+dx])}$$

$$\frac{1}{192\,a^2\,d}\left(-96\,(2\,A-4\,B+7\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+96\,(2\,A-4\,B+7\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\text{Sec}[c+d\,x]^2\left(2\,(10\,A-7\,B+7\,C)\,\text{Sin}\left[\frac{d\,x}{2}\right]+(-22\,A+64\,B-97\,C)\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+\right.$$
$$36\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-84\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+126\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-36\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+42\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$
$$42\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+20\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-56\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+98\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+18\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-$$
$$6\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+3\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-22\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+34\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-37\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$18\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-36\,B\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+63\,C\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-18\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+48\,B\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]-$$
$$75\,C\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+6\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+6\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-15\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-18\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$
$$30\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-39\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+6\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-12\,B\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+$$
$$21\,C\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-8\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+20\,B\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-32\,C\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+6\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-$$
$$\left.\left.12\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-8\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+14\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-20\,C\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 4,\ 0\right\}$$

$$\frac{(B-2\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^2\,d}+\frac{(A-4\,B+10\,C)\,\text{Tan}[c+d\,x]}{3\,a^2\,d}-$$
$$\frac{(A-B+C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(B-2\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$\left(4\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\left(\left(A-B+C\right)\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+2\,(A-4\,B+7\,C)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}\left[\frac{c}{2}\right]\text{Sin}\left[\frac{d\,x}{2}\right]+\right.$$
$$6\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\left(-(B-2\,C)\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\left.\left.C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]\right)+(A-B+C)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Tan}\left[\frac{c}{2}\right]\right)\right)\Big/$$
$$\left(3\,a^2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(1+\text{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 3,\ 0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^2\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(2\,A+B-4\,C)\,\text{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(4\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(6\,C\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)+(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,(2\,A+B-4\,C)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]+(A-B+C)\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\mathrm{Tan}\left[\frac{c}{2}\right]\right)\right)\Big/\left(3\,a^2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\ x,\ 3,\ 0\right\}$$

$$\frac{A\,x}{a^2}-\frac{(A-B+C)\,\mathrm{Tan}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(4\,A-B-2\,C)\,\mathrm{Tan}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{24\,a^2\,d}\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3\left(9\,A\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+9\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+3\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+3\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-18\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+6\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+6\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+12\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-6\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-10\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+4\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\ x,\ 4,\ 0\right\}$$

$$-\frac{(2\,A-B)\,x}{a^2}+\frac{(10\,A-4\,B+C)\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(2\,A-B)\,\mathrm{Sin}[c+d\,x]}{a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{48\,a^2\,d}\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3\left(-18\,(2\,A-B)\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]-18\,(2\,A-B)\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]-12\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+6\,B\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]-12\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+6\,B\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+66\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-36\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-30\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+24\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-12\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+41\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-20\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+8\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+9\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+3\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+3\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\ x,\ 6,\ 0\right\}$$

$$-\frac{(10\,A-7\,B+4\,C)\,x}{2\,a^2}+\frac{2\,(12\,A-8\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(10\,A-7\,B+4\,C)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{2\,a^2\,d}+\frac{(12\,A-8\,B+5\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A-B+C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(10\,A-7\,B+4\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{192\,a^2\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\left(-36\,(10\,A-7\,B+4\,C)\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]-36\,(10\,A-7\,B+4\,C)\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]-120\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+\right.$$
$$84\,B\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]-48\,C\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]-120\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+84\,B\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$
$$48\,C\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+516\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-381\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+264\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-156\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+$$
$$147\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-120\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+342\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-239\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+164\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$118\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-63\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+36\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+30\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-15\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$
$$12\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+30\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-15\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+12\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.3\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+3\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\ x,\ 6,\ 0\right\}$$

$$\frac{(2\,A-6\,B+13\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a^3\,d}-\frac{2\,(11\,A-36\,B+76\,C)\,\mathrm{Tan}[c+d\,x]}{15\,a^3\,d}+\frac{(2\,A-6\,B+13\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a^3\,d}-$$
$$\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(A-6\,B+11\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(11\,A-36\,B+76\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{8\,(2\,A-6\,B+13\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{8\,(2\,A-6\,B+13\,C)\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{1}{240\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Big(490\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-870\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+1235\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-530\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+1830\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-3805\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+$$

$$654\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-2094\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+4329\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-654\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+1314\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$1989\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+490\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-1650\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+3575\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+350\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-$$

$$450\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+475\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-530\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+1230\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-2005\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$

$$350\,A\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-1050\,B\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+2275\,C\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-378\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+1278\,B\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-$$

$$2673\,C\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+150\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-90\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-105\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-378\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$

$$918\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-1593\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+150\,A\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-450\,B\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+975\,C\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-$$

$$190\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+630\,B\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-1325\,C\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+30\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+60\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-$$

$$255\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-190\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+480\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-875\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+30\,A\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-$$

$$90\,B\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+195\,C\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-44\,A\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+144\,B\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-304\,C\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+$$

$$30\,B\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-90\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-44\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+114\,B\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-214\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\ x,\ 5,\ 0\right\}$$

$$\frac{(B-3\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{a^3\,d}+\frac{2\,(A-11\,B+36\,C)\,\mathrm{Tan}[c+d\,x]}{15\,a^3\,d}-$$

$$\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{5\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+\frac{(A+4\,B-9\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(B-3\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{60 a^3 d (A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2(c+dx)])(1+\operatorname{Sec}[c+dx])^3}$$
$$\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]\operatorname{Sec}[c+dx]\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$
$$\left(-960(B-3C)\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^5\left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+\right.$$
$$\operatorname{Sec}\left[\frac{c}{2}\right]\operatorname{Sec}[c]\operatorname{Sec}[c+dx]\left(-5(4A-32B+51C)\operatorname{Sin}\left[\frac{dx}{2}\right]+(22A-167B+567C)\operatorname{Sin}\left[\frac{3dx}{2}\right]-10A\operatorname{Sin}\left[c-\frac{dx}{2}\right]+\right.$$
$$170B\operatorname{Sin}\left[c-\frac{dx}{2}\right]-600C\operatorname{Sin}\left[c-\frac{dx}{2}\right]+10A\operatorname{Sin}\left[c+\frac{dx}{2}\right]-170B\operatorname{Sin}\left[c+\frac{dx}{2}\right]+375C\operatorname{Sin}\left[c+\frac{dx}{2}\right]-$$
$$20A\operatorname{Sin}\left[2c+\frac{dx}{2}\right]+160B\operatorname{Sin}\left[2c+\frac{dx}{2}\right]-480C\operatorname{Sin}\left[2c+\frac{dx}{2}\right]+75B\operatorname{Sin}\left[c+\frac{3dx}{2}\right]-60C\operatorname{Sin}\left[c+\frac{3dx}{2}\right]+$$
$$22A\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]-167B\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]+402C\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]+75B\operatorname{Sin}\left[3c+\frac{3dx}{2}\right]-$$
$$225C\operatorname{Sin}\left[3c+\frac{3dx}{2}\right]+10A\operatorname{Sin}\left[c+\frac{5dx}{2}\right]-95B\operatorname{Sin}\left[c+\frac{5dx}{2}\right]+315C\operatorname{Sin}\left[c+\frac{5dx}{2}\right]+15B\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]+$$
$$30C\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]+10A\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]-95B\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]+240C\operatorname{Sin}\left[3c+\frac{5dx}{2}\right]+$$
$$15B\operatorname{Sin}\left[4c+\frac{5dx}{2}\right]-45C\operatorname{Sin}\left[4c+\frac{5dx}{2}\right]+2A\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]-22B\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]+72C\operatorname{Sin}\left[2c+\frac{7dx}{2}\right]+$$
$$\left.\left.15C\operatorname{Sin}\left[3c+\frac{7dx}{2}\right]+2A\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]-22B\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]+57C\operatorname{Sin}\left[4c+\frac{7dx}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+dx]^2\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{(a+a\operatorname{Sec}[c+dx])^3},\ x,\ 4,\ 0\right\}$$
$$\frac{C\operatorname{ArcTanh}[\operatorname{Sin}[c+dx]]}{a^3 d}-\frac{(A-B+C)\operatorname{Sec}[c+dx]^2\operatorname{Tan}[c+dx]}{5d(a+a\operatorname{Sec}[c+dx])^3}+$$
$$\frac{(3A+2B-7C)\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]}{15ad(a+a\operatorname{Sec}[c+dx])^2}+\frac{(3A+2B-22C)\operatorname{Tan}[c+dx]}{15a^2 d(a+a\operatorname{Sec}[c+dx])}$$
$$-\frac{1}{15a^3 d(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2(c+dx)])(1+\operatorname{Sec}[c+dx])^3}$$
$$\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]\operatorname{Sec}[c+dx]\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$
$$\left(240C\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^5\left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)-\right.$$
$$\operatorname{Sec}\left[\frac{c}{2}\right]\left(5(3A+4B-29C)\operatorname{Sin}\left[\frac{dx}{2}\right]-15(A-5C)\operatorname{Sin}\left[c+\frac{dx}{2}\right]+15A\operatorname{Sin}\left[c+\frac{3dx}{2}\right]+10B\operatorname{Sin}\left[c+\frac{3dx}{2}\right]-\right.$$
$$\left.\left.95C\operatorname{Sin}\left[c+\frac{3dx}{2}\right]+15C\operatorname{Sin}\left[2c+\frac{3dx}{2}\right]+3A\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]+2B\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]-22C\operatorname{Sin}\left[2c+\frac{5dx}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2}{(a+a\operatorname{Sec}[c+dx])^3},\ x,\ 4,\ 0\right\}$$
$$\frac{Ax}{a^3}-\frac{(A-B+C)\operatorname{Tan}[c+dx]}{5d(a+a\operatorname{Sec}[c+dx])^3}-\frac{(7A-2B-3C)\operatorname{Tan}[c+dx]}{15ad(a+a\operatorname{Sec}[c+dx])^2}-\frac{(22A-2B-3C)\operatorname{Tan}[c+dx]}{15a^2 d(a+a\operatorname{Sec}[c+dx])}$$

$$\frac{1}{480\,a^3\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$
$$\left(150\,A\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]+150\,A\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+75\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+15\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+\right.$$
$$15\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-370\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+80\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+30\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]+270\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$
$$60\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-30\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-230\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+40\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+30\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$\left.90\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-30\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-64\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+14\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+6\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,5,\,0\right\}$$
$$-\frac{(3\,A-B)\,x}{a^3}+\frac{2\,(36\,A-11\,B+C)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(9\,A-4\,B-C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(3\,A-B)\,\text{Sin}[c+d\,x]}{a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{960\,a^3\,d}\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$
$$\left(-300\,(3\,A-B)\,d\,x\,\text{Cos}\left[\frac{d\,x}{2}\right]-300\,(3\,A-B)\,d\,x\,\text{Cos}\left[c+\frac{d\,x}{2}\right]-450\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+150\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-\right.$$
$$450\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+150\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-90\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+30\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$90\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+30\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+1755\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-740\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+160\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]-$$
$$1125\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+540\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-120\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+1215\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-460\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$80\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-225\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+180\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-60\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+363\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$\left.128\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+28\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+75\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+15\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$
$$-\frac{(23\,A-13\,B+6\,C)\,x}{2\,a^3}+\frac{8\,(34\,A-19\,B+9\,C)\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(23\,A-13\,B+6\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a^3\,d}+$$
$$\frac{4\,(34\,A-19\,B+9\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a^3\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$
$$\frac{(13\,A-8\,B+3\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(23\,A-13\,B+6\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{3840\,a^3\,d}\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5$$

$$\Big(-600\,(23\,A-13\,B+6\,C)\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]-600\,(23\,A-13\,B+6\,C)\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]-6900\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+$$

$$3900\,B\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]-1800\,C\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]-6900\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+3900\,B\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$

$$1800\,C\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-1380\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+780\,B\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-360\,C\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$

$$1380\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+780\,B\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-360\,C\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+20\,410\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-$$

$$12\,760\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+7020\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-11\,110\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+7560\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-4500\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+$$

$$15\,380\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-9230\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+4860\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-380\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+930\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$

$$900\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+4777\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-2782\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+1452\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$

$$1625\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-750\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+300\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+230\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-105\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$

$$60\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+230\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-105\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+60\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-20\,A\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+$$

$$15\,B\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-20\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+15\,B\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+5\,A\,\mathrm{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]+5\,A\,\mathrm{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^5\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$\frac{(2\,A-8\,B+21\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,a^4\,d}-\frac{8\,(20\,A-83\,B+216\,C)\,\mathrm{Tan}[c+d\,x]}{105\,a^4\,d}+$$

$$\frac{(2\,A-8\,B+21\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,a^4\,d}-\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^5\,\mathrm{Tan}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}+\frac{(B-2\,C)\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]}{5\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(10\,A-52\,B+129\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{4\,(20\,A-83\,B+216\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{16\,(2\,A-8\,B+21\,C)\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4}+$$

$$\frac{16\,(2\,A-8\,B+21\,C)\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4}+$$

$$\frac{1}{3360\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Big(14\,140\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-38\,668\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+73\,206\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]-15\,160\,A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+64\,384\,B\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-166\,668\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+$$

$$17\,220\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-70\,896\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+183\,162\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-17\,220\,A\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+50\,316\,B\,\text{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$100\,842\,C\,\text{Sin}\left[c+\frac{d\,x}{2}\right]+14\,140\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-59\,248\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+155\,526\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+$$

$$9800\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-22\,820\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+37\,380\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-15\,160\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$

$$48\,004\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-101\,148\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+9800\,A\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-39\,200\,B\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+$$

$$102\,900\,C\,\text{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-10\,920\,A\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+46\,032\,B\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]-119\,364\,C\,\text{Sin}\left[c+\frac{5\,d\,x}{2}\right]+$$

$$4760\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-8750\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+8820\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-10\,920\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$

$$35\,742\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-78\,204\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+4760\,A\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-19\,040\,B\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+$$

$$49\,980\,C\,\text{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-5890\,A\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+24\,664\,B\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-64\,053\,C\,\text{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$

$$1470\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-1050\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-3885\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-5890\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+$$

$$19\,834\,B\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-44\,733\,C\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+1470\,A\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-5880\,B\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+$$

$$15\,435\,C\,\text{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-2030\,A\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+8456\,B\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-21\,987\,C\,\text{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+$$

$$210\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+630\,B\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-3675\,C\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]-2030\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+6986\,B\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-$$

$$16\,107\,C\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+210\,A\,\text{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]-840\,B\,\text{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]+2205\,C\,\text{Sin}\left[6\,c+\frac{9\,d\,x}{2}\right]-$$

$$320\,A\,\text{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]+1328\,B\,\text{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]-3456\,C\,\text{Sin}\left[4\,c+\frac{11\,d\,x}{2}\right]+210\,B\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]-$$

$$840\,C\,\text{Sin}\left[5\,c+\frac{11\,d\,x}{2}\right]-320\,A\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]+1118\,B\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]-2616\,C\,\text{Sin}\left[6\,c+\frac{11\,d\,x}{2}\right]\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$

$$\frac{(B-4\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{a^4\,d}+\frac{2\,(3\,A-80\,B+332\,C)\,\text{Tan}[c+d\,x]}{105\,a^4\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{7\,d\,(a+a\,\text{Sec}[c+d\,x])^4}+$$

$$\frac{(2\,A+5\,B-12\,C)\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(3\,A+25\,B-88\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(B-4\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{a^3\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{840\,a^4\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-26\,880\,(B-4\,C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\right.$$

$$\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(-35\,(6\,A-119\,B+308\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+7\,(36\,A-635\,B+2684\,C)\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-126\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+\right.$$

$$4795\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-20\,524\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+126\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-4795\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+14\,644\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$210\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+4165\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-16\,660\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+2275\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]-4690\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$

$$252\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-4445\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+14\,378\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+2275\,B\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]-$$

$$9100\,C\,\mathrm{Sin}\left[3\,c+\frac{3\,d\,x}{2}\right]+132\,A\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]-2785\,B\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+11\,668\,C\,\mathrm{Sin}\left[c+\frac{5\,d\,x}{2}\right]+735\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$

$$630\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+132\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-2785\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+9358\,C\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$

$$735\,B\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]-2940\,C\,\mathrm{Sin}\left[4\,c+\frac{5\,d\,x}{2}\right]+42\,A\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]-1015\,B\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+$$

$$4228\,C\,\mathrm{Sin}\left[2\,c+\frac{7\,d\,x}{2}\right]+105\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+315\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+42\,A\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]-1015\,B\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+$$

$$3493\,C\,\mathrm{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+105\,B\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]-420\,C\,\mathrm{Sin}\left[5\,c+\frac{7\,d\,x}{2}\right]+6\,A\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]-160\,B\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+$$

$$\left.\left.664\,C\,\mathrm{Sin}\left[3\,c+\frac{9\,d\,x}{2}\right]+105\,C\,\mathrm{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+6\,A\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]-160\,B\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]+559\,C\,\mathrm{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 5,\ 0\right\}$$

$$\frac{A\,x}{a^4}-\frac{(A-B+C)\,\mathrm{Tan}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{(10\,A-3\,B-4\,C)\,\mathrm{Tan}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(55\,A-6\,B-8\,C)\,\mathrm{Tan}[c+d\,x]}{105\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{2\,(80\,A-3\,B-4\,C)\,\mathrm{Tan}[c+d\,x]}{105\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{13\,440\,a^4\,d}$$

$$\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^7\left(3675\,A\,d\,x\,\mathrm{Cos}\left[\frac{d\,x}{2}\right]+3675\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{d\,x}{2}\right]+2205\,A\,d\,x\,\mathrm{Cos}\left[c+\frac{3\,d\,x}{2}\right]+2205\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+\right.$$

$$735\,A\,d\,x\,\mathrm{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+735\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+105\,A\,d\,x\,\mathrm{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+105\,A\,d\,x\,\mathrm{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]-$$

$$9940\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+1260\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+560\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+8260\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-1260\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-350\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$7140\,A\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+882\,B\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+336\,C\,\mathrm{Sin}\left[c+\frac{3\,d\,x}{2}\right]+3780\,A\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-630\,B\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-$$

$$210\,C\,\mathrm{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-2800\,A\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+294\,B\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+182\,C\,\mathrm{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+$$

$$\left.840\,A\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-210\,B\,\mathrm{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-520\,A\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+72\,B\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+26\,C\,\mathrm{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$

$$-\frac{(4A-B)\,x}{a^4}+\frac{2\,(332A-80B+3C)\,\text{Sin}[c+dx]}{105\,a^4\,d}-\frac{(A-B+C)\,\text{Sin}[c+dx]}{7\,d\,(a+a\,\text{Sec}[c+dx])^4}-$$
$$\frac{(12A-5B-2C)\,\text{Sin}[c+dx]}{35\,a\,d\,(a+a\,\text{Sec}[c+dx])^3}-\frac{(88A-25B-3C)\,\text{Sin}[c+dx]}{105\,a^2\,d\,(a+a\,\text{Sec}[c+dx])^2}-\frac{(4A-B)\,\text{Sin}[c+dx]}{a^3\,d\,(a+a\,\text{Sec}[c+dx])}$$
$$\frac{1}{26\,880\,a^4\,d}\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{1}{2}\,(c+dx)\right]^7$$
$$\left(-7350\,(4A-B)\,d\,x\,\text{Cos}\left[\frac{dx}{2}\right]-7350\,(4A-B)\,d\,x\,\text{Cos}\left[c+\frac{dx}{2}\right]-17\,640\,A\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]+4410\,B\,d\,x\,\text{Cos}\left[c+\frac{3\,d\,x}{2}\right]-\right.$$
$$17\,640\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]+4410\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{3\,d\,x}{2}\right]-5880\,A\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]+1470\,B\,d\,x\,\text{Cos}\left[2\,c+\frac{5\,d\,x}{2}\right]-$$
$$5880\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]+1470\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{5\,d\,x}{2}\right]-840\,A\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]+210\,B\,d\,x\,\text{Cos}\left[3\,c+\frac{7\,d\,x}{2}\right]-$$
$$840\,A\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+210\,B\,d\,x\,\text{Cos}\left[4\,c+\frac{7\,d\,x}{2}\right]+60\,830\,A\,\text{Sin}\left[\frac{dx}{2}\right]-19\,880\,B\,\text{Sin}\left[\frac{dx}{2}\right]+2520\,C\,\text{Sin}\left[\frac{dx}{2}\right]-$$
$$46\,130\,A\,\text{Sin}\left[c+\frac{dx}{2}\right]+16\,520\,B\,\text{Sin}\left[c+\frac{dx}{2}\right]-2520\,C\,\text{Sin}\left[c+\frac{dx}{2}\right]+46\,116\,A\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-14\,280\,B\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]+$$
$$1764\,C\,\text{Sin}\left[c+\frac{3\,d\,x}{2}\right]-18\,060\,A\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+7560\,B\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]-1260\,C\,\text{Sin}\left[2\,c+\frac{3\,d\,x}{2}\right]+$$
$$19\,292\,A\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-5600\,B\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]+588\,C\,\text{Sin}\left[2\,c+\frac{5\,d\,x}{2}\right]-2100\,A\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+$$
$$1680\,B\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]-420\,C\,\text{Sin}\left[3\,c+\frac{5\,d\,x}{2}\right]+3791\,A\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]-1040\,B\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+$$
$$\left.144\,C\,\text{Sin}\left[3\,c+\frac{7\,d\,x}{2}\right]+735\,A\,\text{Sin}\left[4\,c+\frac{7\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[4\,c+\frac{9\,d\,x}{2}\right]+105\,A\,\text{Sin}\left[5\,c+\frac{9\,d\,x}{2}\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+dx]^2\sqrt{a+a\,\text{Sec}[c+dx]}\,\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 3,\ 0\right\}$$

$$\frac{\sqrt{a}\,(3A+4B+8C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+dx]}{\sqrt{a+a\,\text{Sec}[c+dx]}}\right]}{4\,d}+\frac{a\,(A+4B)\,\text{Sin}[c+dx]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+dx]}}+\frac{A\,\text{Cos}[c+dx]\,\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{2\,d}$$

$$\frac{1}{2}\left(\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]\sqrt{a(1+\text{Sec}[c+d x])}\left(-\frac{1}{4}(A+4B)\text{Sin}\left[\frac{1}{2}(c+d x)\right]+\frac{1}{2}(A+2B)\text{Sin}\left[\frac{3}{2}(c+d x)\right]+\frac{1}{4}A\,\text{Sin}\left[\frac{5}{2}(c+d x)\right]\right)}{d}-\right.$$

$$\frac{1}{d}2\left(-3-2\sqrt{2}\right)(3A+4B+8C)\text{Cos}\left[\frac{1}{4}(c+d x)\right]^4\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\sqrt{\frac{-1+\sqrt{2}-\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}}\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d x)\right]^2}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]$$

$$\left.\text{Sec}[c+d x]\sqrt{a(1+\text{Sec}[c+d x])}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d x]^2(a+a\,\text{Sec}[c+d x])^{3/2}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),x,4,0\right\}$$

$$\frac{a^{3/2}(7A+12B+8C)\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d x]}{\sqrt{a+a\,\text{Sec}[c+d x]}}\right]}{4d}+\frac{a^2(5A+4B-8C)\text{Sin}[c+d x]}{4d\sqrt{a+a\,\text{Sec}[c+d x]}}-$$

$$\frac{a(A-4C)\sqrt{a+a\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{2d}+\frac{A\,\text{Cos}[c+d x](a+a\,\text{Sec}[c+d x])^{3/2}\text{Sin}[c+d x]}{2d}$$

$$\frac{1}{2}\left(\frac{1}{d}\text{Cos}[c+d x]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3(a(1+\text{Sec}[c+d x]))^{3/2}\right.$$

$$\left(-\frac{1}{8}(5A+4B-16C)\text{Sin}\left[\frac{1}{2}(c+d x)\right]+\frac{1}{4}(3A+2B)\text{Sin}\left[\frac{3}{2}(c+d x)\right]+\frac{1}{8}A\,\text{Sin}\left[\frac{5}{2}(c+d x)\right]\right)+$$

$$\frac{1}{d}\left(-2-\frac{3}{\sqrt{2}}\right)(7A+12B+8C)\text{Cos}\left[\frac{1}{4}(c+d x)\right]^6\sqrt{\frac{7-5\sqrt{2}+\left(10-7\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Cos}\left[\frac{1}{2}(c+d x)\right]}}$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\sqrt{2},-\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}(c+d x)\right]}{\sqrt{3-2\sqrt{2}}}\right],17-12\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\text{Cos}\left[\frac{1}{2}(c+d x)\right]\right)\text{Sec}\left[\frac{1}{4}(c+d x)\right]^2}$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^3(a(1+\text{Sec}[c+d x]))^{3/2}\sqrt{3-2\sqrt{2}-\text{Tan}\left[\frac{1}{4}(c+d x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{a^{5/2}\,(19\,A+20\,B+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,d}+$$

$$\frac{a^3\,(27\,A-12\,B-56\,C)\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{a^2\,(A-4\,B-8\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{a\,(3\,A-4\,C)\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{6\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+a\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{2}\left(\frac{1}{d}\text{Cos}[c+d\,x]^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\left(-\frac{1}{48}\,(27\,A-36\,B-128\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.\right.$$

$$\left.\frac{1}{3}\,C\,\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\frac{1}{8}\,(5\,A+2\,B)\,\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]+\frac{1}{16}\,A\,\text{Sin}\left[\frac{5}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{\left(8-6\,\sqrt{2}\right)\,d}\,(19\,A+20\,B+8\,C)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]^6\,\sqrt{\frac{7-5\,\sqrt{2}+\left(10-7\,\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}}\,\text{Cos}[c+d\,x]$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]+2\,\text{EllipticPi}\left[-3+2\,\sqrt{2},\ -\text{ArcSin}\left[\frac{\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]}{\sqrt{3-2\,\sqrt{2}}}\right],\ 17-12\,\sqrt{2}\right]\right)$$

$$\left(-\left(1-\sqrt{2}+\left(-2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\left(-1-\sqrt{2}+\left(2+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\text{Sec}\left[\frac{1}{4}\,(c+d\,x)\right]^2}$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}\,\sqrt{3-2\,\sqrt{2}-\text{Tan}\left[\frac{1}{4}\,(c+d\,x)\right]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{(7\,A-4\,B+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,\sqrt{a}\,d}-$$

$$\frac{\sqrt{2}\,(A-B+C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{\sqrt{a}\,d}-\frac{(A-4\,B)\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{A\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(\frac{\left(-8\,(A-B+C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,(7\,A-4\,B+8\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\left.\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,(-A+4\,B+2\,A\,\text{Cos}[c+d\,x])\,\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,5,\,0\right\}$$

$$-\frac{(3\,A-2\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{a^{3/2}\,d}+\frac{(9\,A-5\,B+C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(3\,A-B+C)\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}$$

$$\text{Cos}[c+d\,x]\,(1+\text{Sec}[c+d\,x])^2\,(B+A\,\text{Cos}[c+d\,x]+C\,\text{Sec}[c+d\,x])$$

$$\left(-2\,\sqrt{2}\,(3\,A-B+C)\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\text{Cot}[c+d\,x]\,\sqrt{-1+\text{Sec}[c+d\,x]}-4\,(3\,A-2\,B)\right.$$

$$\left(\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]+\text{ArcTan}\left[\frac{-2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]-\text{ArcTan}\left[\frac{2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\right)\text{Cot}[c+d\,x]$$

$$\left.\sqrt{-1+\text{Sec}[c+d\,x]}+(3\,A-B+C+2\,A\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,6,\,0\right\}$$

$$\frac{(19\,A-12\,B+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{3/2}\,d}-\frac{(13\,A-9\,B+5\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-$$

$$\frac{(A-B+C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{(7\,A-6\,B+2\,C)\,\text{Sin}[c+d\,x]}{4\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(2\,A-B+C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]^{3/2}$$

$$\left(\frac{\left(-2\,(13\,A-9\,B+5\,C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\sqrt{2}\,(19\,A-12\,B+8\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{1}{2}\,(-6\,A+6\,B-2\,C+(-3\,A+4\,B)\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,7,\,0\right\}$$

$$-\frac{(47\,A-38\,B+24\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{8\,a^{3/2}\,d}+\frac{(17\,A-13\,B+9\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{2\,\sqrt{2}\,a^{3/2}\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{(21\,A-14\,B+12\,C)\,\text{Sin}[c+d\,x]}{8\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(13\,A-12\,B+6\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{12\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(5\,A-3\,B+3\,C)\,\text{Cos}[c+d\,x]^2\,\text{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}\,(1+\text{Cos}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-6\,\sqrt{2}\,(21\,A-14\,B+12\,C)\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\text{Cot}[c+d\,x]\,\sqrt{-1+\text{Sec}[c+d\,x]}-6\,(47\,A-38\,B+24\,C)\right.$$

$$\left(\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]+\text{ArcTan}\left[\frac{-2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]-\text{ArcTan}\left[\frac{2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\right)\text{Cot}[c+d\,x]$$

$$\sqrt{-1+\text{Sec}[c+d\,x]}+(60\,A-36\,B+36\,C+(43\,A-18\,B+24\,C)\,\text{Cos}[c+d\,x]-3\,(A-2\,B)\,\text{Cos}[2\,(c+d\,x)]+2\,A\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,5,\,0\right\}$$

$$\frac{2\,A\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}-\frac{(43\,A-3\,B-5\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\,\sqrt{2}\,a^{5/2}\,d}-\frac{(A-B+C)\,\text{Tan}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{(11\,A-3\,B-5\,C)\,\text{Tan}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{64\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\,\text{Cos}[c+d\,x]^2\,(1+\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(4\sqrt{2}\,(11\,A-3\,B-5\,C)\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\text{Cot}[c+d\,x]\,\sqrt{-1+\text{Sec}[c+d\,x]}+\right.$$

$$128\,A\left(\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]+\text{ArcTan}\left[\frac{-2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]-\text{ArcTan}\left[\frac{2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\right)\text{Cot}[c+d\,x]$$

$$\left.\sqrt{-1+\text{Sec}[c+d\,x]}+(11\,A-3\,B-5\,C+(15\,A-7\,B-C)\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,6,\,0\right\}$$

$$-\frac{(5\,A-2\,B)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{a^{5/2}\,d}+\frac{(115\,A-43\,B+3\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-$$

$$\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-\frac{(15\,A-7\,B-C)\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(35\,A-11\,B+3\,C)\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{64\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}$$

$$\text{Cos}[c+d\,x]\,(1+\text{Sec}[c+d\,x])^3\,(B+A\,\text{Cos}[c+d\,x]+C\,\text{Sec}[c+d\,x])$$

$$\left(-4\sqrt{2}\,(35\,A-11\,B+3\,C)\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\text{Cot}[c+d\,x]\,\sqrt{-1+\text{Sec}[c+d\,x]}-64\,(5\,A-2\,B)\right.$$

$$\left(\sqrt{2}\,\text{ArcTan}\left[\frac{\sqrt{2}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]+\text{ArcTan}\left[\frac{-2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]-\text{ArcTan}\left[\frac{2+\sqrt{1+\text{Sec}[c+d\,x]}}{\sqrt{-1+\text{Sec}[c+d\,x]}}\right]\right)\text{Cot}[c+d\,x]$$

$$\sqrt{-1+\text{Sec}[c+d\,x]}+(43\,A-11\,B+3\,C+(55\,A-15\,B+7\,C)\,\text{Cos}[c+d\,x]+8\,A\,\text{Cos}[2\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{(39\,A-20\,B+8\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{4\,a^{5/2}\,d}-\frac{(219\,A-115\,B+43\,C)\,\text{ArcTan}\left[\frac{\sqrt{a}\,\text{Tan}[c+d\,x]}{\sqrt{2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}\right]}{16\sqrt{2}\,a^{5/2}\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{4\,d\,(a+a\,\text{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{(19\,A-11\,B+3\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-\frac{(63\,A-35\,B+11\,C)\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(31\,A-15\,B+7\,C)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(a\,(1+\text{Sec}[c+d\,x]))^{5/2}}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\text{Sec}[c+d\,x]^{5/2}$$

$$\left(\frac{1}{\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left((-219\,A+115\,B-43\,C)\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\,\sqrt{2}\,(39\,A-20\,B+8\,C)\,\text{ArcTan}\left[\frac{\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\right]\right)\right.$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{1+\text{Sec}[c+d\,x]}\,+$$

$$\frac{1}{4}\,(73\,A-43\,B+11\,C+(89\,A-55\,B+15\,C)\,\text{Cos}[c+d\,x]+2\,(5\,A-4\,B)\,\text{Cos}[2\,(c+d\,x)]-2\,A\,\text{Cos}[3\,(c+d\,x)])$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{\text{Sec}[c+d\,x]}\,\left(\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$-\frac{2\,(5\,A+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,B\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{2\,(5\,A+3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+$$

$$\frac{2\,B\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\left(4\,e^{-i\,(c+d\,x)}\left(5\,B\,e^{i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\right.\right.$$

$$i\left(-15\,A-9\,C-5\,B\,e^{i\,(c+d\,x)}-30\,A\,e^{2\,i\,(c+d\,x)}-24\,C\,e^{2\,i\,(c+d\,x)}-15\,A\,e^{4\,i\,(c+d\,x)}-3\,C\,e^{4\,i\,(c+d\,x)}+5\,B\,e^{5\,i\,(c+d\,x)}+\right.$$

$$\left.\left.\left.3\,(5\,A+3\,C)\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)\right)\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(15\,d\,\left(1+e^{2\,i\,(c+d\,x)}\right)^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$-\frac{2\,B\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\,(3\,A+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{2\,B\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{d\left(-1+e^{2\,i\,c}\right)}4\,i\,\sqrt{2}\,e^{-i\,(c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\left(3\,B\left(1+e^{2\,i\,(c+d\,x)}\right)+3\,B\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+(3\,A+C)\,e^{i\,(c+d\,x)}\right.$$

$$\left.\left.\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+\frac{4\,(3\,B\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+C\,\mathrm{Tan}[c+d\,x])}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$\frac{2\,(A-C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{2\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}$$

$$\frac{1}{d}2\left(B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\right.$$

$$\left.\frac{1}{2}\,i\,e^{-i\,(c+d\,x)}\left(A-2\,C+A\,e^{2\,i\,(c+d\,x)}+2\,(-A+C)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\right)\sqrt{\mathrm{Sec}[c+d\,x]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,5,\,0\right\}$$

$$\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\,(A+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d}\sqrt{\mathrm{Sec}[c+d\,x]}\left(6\,i\,B\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]-\right.$$

$$\left.2\,i\,(A+3\,C)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{4},\frac{1}{2},\frac{5}{4},-e^{2\,i\,(c+d\,x)}\right]+2\,\mathrm{Cos}[c+d\,x]\,(-3\,i\,B+A\,\mathrm{Sin}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}},\,x,\,6,\,0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{2\,A\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{2\,B\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{30\,d}\sqrt{\text{Sec}[c+d\,x]}\left(20\,B\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+12\,i\,(3\,A+5\,C)\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(10\,B\,\text{Sin}[c+d\,x]+3\,(-2\,i\,(3\,A+5\,C)+A\,\text{Sin}[2\,(c+d\,x)]))\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\right\}$$

$$\frac{6\,B\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{2\,(5\,A+7\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,A\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,B\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,(5\,A+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{420\,d}\sqrt{\text{Sec}[c+d\,x]}\left(504\,i\,B\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]-40\,i\,(5\,A+7\,C)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{4},\,\frac{1}{2},\,\frac{5}{4},\,-e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]\,(5\,(23\,A+28\,C)\,\text{Sin}[c+d\,x]+3\,(-84\,i\,B+14\,B\,\text{Sin}[2\,(c+d\,x)]+5\,A\,\text{Sin}[3\,(c+d\,x)]))\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{2\,a\,(5\,A+3\,B+3\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+\frac{2\,a\,(7\,A+7\,B+5\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a\,(5\,A+3\,B+3\,C)\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,a\,(7\,A+7\,B+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a\,(7\,B+2\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{105\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{d}210\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}126\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}126\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{140\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{140\,B\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{100\,C\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{4\left(21\,(5\,A+3\,(B+C))\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+\left(5\,(7\,A+7\,B+5\,C)+21\,(B+C)\,\mathrm{Sec}[c+d\,x]+15\,C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Tan}[c+d\,x]\right)}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),x,7,0\right\}$$

$$-\frac{2\,a\,(5\,A+5\,B+3\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,a\,(3\,A+B+C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+\frac{2\,a\,(5\,A+5\,B+3\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d}+$$

$$\frac{2\,a\,(5\,B+2\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{15\,d}+\frac{2\,C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{15\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{d}30\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}30\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}18\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{60\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{20\,B\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{20\,C\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{4\,(3\,(5\,A+5\,B+3\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+(5\,(B+C)+3\,C\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x])}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},x,6,0\right\}$$

$$\frac{2\,a\,(A-B-C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\,a\,(3\,A+3\,B+C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{2\,a\,(3\,B+2\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,C\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$

$$a\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{d}6\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}6\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}6\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{12\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{12\,B\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+\frac{4\,C\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\left.\frac{2\,(-3\,(A-2\,(B+C)+A\,\mathrm{Cos}[2\,c])\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+6\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]+2\,C\,\mathrm{Tan}[c+d\,x])}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},x,6,0\right\}$$

$$\frac{2\,a\,(A+B-C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\,a\,(A+3\,B+3\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}-$$

$$\frac{2\,a\,(A-3\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3\,d\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d}a\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\left(-6\,i\,A\,\mathrm{Cos}[c+d\,x]-6\,i\,B\,\mathrm{Cos}[c+d\,x]+6\,i\,C\,\mathrm{Cos}[c+d\,x]+2\,(A+3\,(B+C))\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]+\right.$$

$$\left.6\,i\,(A+B-C)\,e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]+6\,C\,\mathrm{Sin}[c+d\,x]+A\,\mathrm{Sin}[2\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{5/2}},x,6,0\right\}$$

$$\frac{2\,a\,(3\,A+5\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{2\,a\,(A+B+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$
$$\frac{2\,a\,(2\,A+5\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$
$$\frac{1}{30\,d}\,a\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(20\,(A+B+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+$$
$$12\,i\,(3\,A+5\,(B+C))\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,\text{Cos}[c+d\,x]\,(10\,(A+B)\,\text{Sin}[c+d\,x]+3\,(-2\,i\,(3\,A+5\,(B+C))+A\,\text{Sin}[2\,(c+d\,x)]))\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\right\}$$
$$\frac{2\,a\,(3\,A+3\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{2\,a\,(5\,A+7\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$
$$\frac{2\,a\,(2\,A+7\,B)\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+7\,B+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$
$$\frac{1}{420\,d}\,a\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(40\,(5\,A+7\,(B+C))\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+$$
$$168\,i\,(3\,A+3\,B+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,\text{Cos}[c+d\,x]\,(5\,(23\,A+28\,(B+C))\,\text{Sin}[c+d\,x]+3\,(-28\,i\,(3\,A+3\,B+5\,C)+14\,(A+B)\,\text{Sin}[2\,(c+d\,x)]+5\,A\,\text{Sin}[3\,(c+d\,x)]))\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\right\}$$
$$\frac{2\,a\,(7\,A+9\,B+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{2\,a\,(5\,A+5\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a\,(2\,A+9\,B)\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$
$$\frac{2\,a\,(7\,A+9\,B+9\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+5\,B+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$
$$\frac{1}{2520\,d}\,a\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(240\,(5\,A+5\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+$$
$$336\,i\,(7\,A+9\,(B+C))\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,\text{Cos}[c+d\,x]\,(-1176\,i\,A-1512\,i\,B-1512\,i\,C+30\,(23\,A+23\,B+28\,C)\,\text{Sin}[c+d\,x]+$$
$$14\,(19\,A+18\,(B+C))\,\text{Sin}[2\,(c+d\,x)]+90\,A\,\text{Sin}[3\,(c+d\,x)]+90\,B\,\text{Sin}[3\,(c+d\,x)]+35\,A\,\text{Sin}[4\,(c+d\,x)])\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$-\frac{4\,a^2\,(12\,A+9\,B+8\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^2\,(7\,A+6\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{4\,a^2\,(12\,A+9\,B+8\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{4\,a^2\,(7\,A+6\,B+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a^2\,(21\,A+27\,B+19\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,a\,(9\,B+4\,C)\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d}$$

$$-\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]))-\left(3\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\right.$$

$$\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]))-\left(8\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$\left.(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/(15d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]))+$$

$$\frac{2A\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{7/2}}+$$

$$\frac{4B\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{7d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{7/2}}+$$

$$\frac{10C\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{21d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{7/2}}+$$

$$\frac{1}{(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{7/2}}$$

$$\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(\frac{2(12A+9B+8C)\,\text{Cos}[dx]\,\text{Csc}[c]}{15d}+\right.$$

$$\frac{C\,\text{Sec}[c]\,\text{Sec}[c+dx]^4\,\text{Sin}[dx]}{9d}+\frac{\text{Sec}[c]\,\text{Sec}[c+dx]^3\,(7C\,\text{Sin}[c]+9B\,\text{Sin}[dx]+18C\,\text{Sin}[dx])}{63d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+dx]^2\,(45B\,\text{Sin}[c]+90C\,\text{Sin}[c]+63A\,\text{Sin}[dx]+126B\,\text{Sin}[dx]+112C\,\text{Sin}[dx])}{315d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+dx]\,(63A\,\text{Sin}[c]+126B\,\text{Sin}[c]+112C\,\text{Sin}[c]+210A\,\text{Sin}[dx]+180B\,\text{Sin}[dx]+150C\,\text{Sin}[dx])}{315d}+$$

$$\left.\frac{2(7A+6B+5C)\,\text{Tan}[c]}{21d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{4 a^2 (5 A+4 B+3 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{5 d}+$$
$$\frac{4 a^2 (14 A+7 B+6 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{21 d}+$$
$$\frac{4 a^2 (5 A+4 B+3 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{5 d}+\frac{2 a^2 (35 A+49 B+33 C) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{105 d}+$$
$$\frac{2 a (7 B+4 C) \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{35 d}+\frac{2 C \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{7 d}$$

$$\frac{1}{105 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 (c+d x)])}$$
$$a^2 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 (1+\text{Sec}[c+d x])^2 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(-\frac{1}{d}105 \sqrt{2}\ A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\right.$$
$$\text{Cos}[c+d x]^4 \text{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)-$$
$$\frac{1}{d}84 \sqrt{2}\ B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^4 \text{Csc}[c]$$
$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)-$$
$$\frac{1}{d}63 \sqrt{2}\ C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^4 \text{Csc}[c]$$
$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)+$$
$$\frac{140 A \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{d \text{Sec}[c+d x]^{7/2}}+\frac{70 B \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{d \text{Sec}[c+d x]^{7/2}}+$$
$$\frac{60 C \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{d \text{Sec}[c+d x]^{7/2}}+$$
$$\left.\frac{42 (5 A+4 B+3 C) \text{Cos}[d x] \text{Csc}[c]+\left(35 A+70 B+60 C+21 (B+2 C) \text{Sec}[c+d x]+15 C \text{Sec}[c+d x]^2\right) \text{Tan}[c+d x]}{d \text{Sec}[c+d x]^{7/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^2 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\sqrt{\text{Sec}[c+d x]}},x,7,0\right\}$$
$$-\frac{4 a^2 (5 B+4 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{5 d}+$$
$$\frac{4 a^2 (3 A+2 B+C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{3 d}+\frac{2 a^2 (15 A+25 B+17 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}+$$
$$\frac{2 a (5 B+4 C) \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{15 d}+\frac{2 C \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{5 d}$$

$$\frac{1}{30\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{5/2}$$
$$\Big(90\,i\,B\,\text{Cos}[c+d\,x]+72\,i\,C\,\text{Cos}[c+d\,x]+30\,i\,B\,\text{Cos}[3\,(c+d\,x)]+24\,i\,C\,\text{Cos}[3\,(c+d\,x)]+40\,(3\,A+2\,B+C)\,\text{Cos}[c+d\,x]^{5/2}$$
$$\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]-6\,i\,(5\,B+4\,C)\,e^{-3\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{5/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$15\,A\,\text{Sin}[c+d\,x]+30\,B\,\text{Sin}[c+d\,x]+36\,C\,\text{Sin}[c+d\,x]+10\,B\,\text{Sin}[2\,(c+d\,x)]+20\,C\,\text{Sin}[2\,(c+d\,x)]+$$
$$15\,A\,\text{Sin}[3\,(c+d\,x)]+30\,B\,\text{Sin}[3\,(c+d\,x)]+24\,C\,\text{Sin}[3\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$
$$\frac{4\,a^2\,(A-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{d}+$$
$$\frac{4\,a^2\,(2\,A+3\,B+2\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{2\,a^2\,(A-3\,B-5\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}-$$
$$\frac{2\,a\,(A-C)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}$$
$$\Big(-12\,i\,A+12\,i\,C-12\,i\,A\,\text{Cos}[2\,(c+d\,x)]+12\,i\,C\,\text{Cos}[2\,(c+d\,x)]+8\,(2\,A+3\,B+2\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$12\,i\,(A-C)\,e^{-2\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+A\,\text{Sin}[c+d\,x]+$$
$$4\,C\,\text{Sin}[c+d\,x]+6\,B\,\text{Sin}[2\,(c+d\,x)]+12\,C\,\text{Sin}[2\,(c+d\,x)]+A\,\text{Sin}[3\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,7,\,0\right\}$$
$$\frac{4\,a^2\,(4\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{4\,a^2\,(A+2\,B+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-\frac{2\,a^2\,(7\,A+5\,B-15\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+$$
$$\frac{2\,a\,(4\,A+5\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\,a^2\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\text{Sec}[c+d\,x]}$$
$$\Big(-96\,i\,A\,\text{Cos}[c+d\,x]-120\,i\,B\,\text{Cos}[c+d\,x]+40\,(A+2\,B+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$24\,i\,(4\,A+5\,B)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+3\,A\,\text{Sin}[c+d\,x]+$$
$$60\,C\,\text{Sin}[c+d\,x]+20\,A\,\text{Sin}[2\,(c+d\,x)]+10\,B\,\text{Sin}[2\,(c+d\,x)]+3\,A\,\text{Sin}[3\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{4\,a^2\,(3\,A+4\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^2\,(6\,A+7\,B+14\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a^2\,(33\,A+49\,B+35\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(4\,A+7\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\,a^2\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(80\,(6\,A+7\,(B+2\,C))\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+$$
$$336\,i\,(3\,A+4\,B+5\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+2\,\text{Cos}[c+d\,x]$$
$$(-504\,i\,A-672\,i\,B-840\,i\,C+5\,(51\,A+28\,(2\,B+C))\,\text{Sin}[c+d\,x]+42\,(2\,A+B)\,\text{Sin}[2\,(c+d\,x)]+15\,A\,\text{Sin}[3\,(c+d\,x)])\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{4\,a^2\,(8\,A+9\,B+12\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^2\,(5\,A+6\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,a^2\,(19\,A+27\,B+21\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{4\,a^2\,(5\,A+6\,B+7\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a\,(4\,A+9\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}\,a^2\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(480\,(5\,A+6\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]+$$
$$672\,i\,(8\,A+9\,B+12\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,\text{Cos}[c+d\,x]\,(-2688\,i\,A-3024\,i\,B-4032\,i\,C+30\,(46\,A+51\,B+56\,C)\,\text{Sin}[c+d\,x]+$$
$$14\,(37\,A+36\,B+18\,C)\,\text{Sin}[2\,(c+d\,x)]+180\,A\,\text{Sin}[3\,(c+d\,x)]+90\,B\,\text{Sin}[3\,(c+d\,x)]+35\,A\,\text{Sin}[4\,(c+d\,x)])\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{11/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{4\,a^2\,(7\,A+8\,B+9\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{4\,a^2\,(50\,A+55\,B+66\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+$$

$$\frac{2\,a^2\,(89\,A+121\,B+99\,C)\,\text{Sin}[c+d\,x]}{693\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{4\,a^2\,(7\,A+8\,B+9\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(50\,A+55\,B+66\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(4\,A+11\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\frac{1}{55440\,d}\,a^2\,\sqrt{\text{Sec}[c+d\,x]}\,\Big(960\,(50\,A+55\,B+66\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+14784\,i\,(7\,A+8\,B+9\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}$$
$$\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+2\,\text{Cos}[c+d\,x]\,(-51744\,i\,A-59136\,i\,B-66528\,i\,C+$$
$$30\,(941\,A+22\,(46\,B+51\,C))\,\text{Sin}[c+d\,x]+308\,(38\,A+37\,B+36\,C)\,\text{Sin}[2\,(c+d\,x)]+4545\,A\,\text{Sin}[3\,(c+d\,x)]+$$
$$3960\,B\,\text{Sin}[3\,(c+d\,x)]+1980\,C\,\text{Sin}[3\,(c+d\,x)]+1540\,A\,\text{Sin}[4\,(c+d\,x)]+770\,B\,\text{Sin}[4\,(c+d\,x)]+315\,A\,\text{Sin}[5\,(c+d\,x)]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\}$$

$$-\frac{4\,a^3\,(21\,A+17\,B+15\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{4\,a^3\,(143\,A+121\,B+105\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+$$
$$\frac{4\,a^3\,(21\,A+17\,B+15\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{4\,a^3\,(143\,A+121\,B+105\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{231\,d}+$$
$$\frac{4\,a^3\,(264\,A+253\,B+210\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{1155\,d}+$$
$$\frac{2\,a^2\,(99\,A+143\,B+105\,C)\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{693\,d}+$$
$$\frac{2\,a\,(11\,B+6\,C)\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d}$$

$$-\left(7 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) - \left(17 B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(15 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) - \left(C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(\sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \frac{13 A \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{11 B \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{5 C \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{11 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{1}{(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(\frac{(21 A+17 B+15 C) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{15 d} + \frac{C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^5 \operatorname{Sin}[d x]}{22 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x]^4 (9 C \operatorname{Sin}[c]+11 B \operatorname{Sin}[d x]+33 C \operatorname{Sin}[d x])}{198 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3 (77 B \operatorname{Sin}[c]+231 C \operatorname{Sin}[c]+99 A \operatorname{Sin}[d x]+297 B \operatorname{Sin}[d x]+378 C \operatorname{Sin}[d x])}{1386 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 (495 A \operatorname{Sin}[c]+1485 B \operatorname{Sin}[c]+1890 C \operatorname{Sin}[c]+2079 A \operatorname{Sin}[d x]+2618 B \operatorname{Sin}[d x]+2310 C \operatorname{Sin}[d x])}{6930 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x] (2079 A \operatorname{Sin}[c]+2618 B \operatorname{Sin}[c]+2310 C \operatorname{Sin}[c]+4290 A \operatorname{Sin}[d x]+3630 B \operatorname{Sin}[d x]+3150 C \operatorname{Sin}[d x])}{6930 d} + \frac{(143 A+121 B+105 C) \operatorname{Tan}[c]}{231 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\operatorname{Sec}[c+d x]}\, (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 9, 0\right\}$$

$$-\frac{4 a^3 (27 A+21 B+17 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{15 d}+$$

$$\frac{4 a^3 (21 A+13 B+11 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{21 d}+$$

$$\frac{4 a^3 (27 A+21 B+17 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}+\frac{4 a^3 (42 A+41 B+32 C) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{105 d}+$$

$$\frac{2 a^2 (63 A+99 B+73 C) \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d}+$$

$$\frac{2 a (3 B+2 C) \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d}+\frac{2 C \text{Sec}[c+d x]^{3/2} (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d}$$

$$-\left(9 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) - \left(7 B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) - \left(17 C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(15 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \frac{A \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{13 B \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{11 C \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{1}{(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(\frac{(27 A+21 B+17 C) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{15 d} + \frac{C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^4 \operatorname{Sin}[d x]}{18 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3 (7 C \operatorname{Sin}[c]+9 B \operatorname{Sin}[d x]+27 C \operatorname{Sin}[d x])}{126 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 (45 B \operatorname{Sin}[c]+135 C \operatorname{Sin}[c]+63 A \operatorname{Sin}[d x]+189 B \operatorname{Sin}[d x]+238 C \operatorname{Sin}[d x])}{630 d} + \frac{\operatorname{Sec}[c] \operatorname{Sec}[c+d x] (63 A \operatorname{Sin}[c]+189 B \operatorname{Sin}[c]+238 C \operatorname{Sin}[c]+315 A \operatorname{Sin}[d x]+390 B \operatorname{Sin}[d x]+330 C \operatorname{Sin}[d x])}{630 d} + \frac{(21 A+26 B+22 C) \operatorname{Tan}[c]}{42 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\sqrt{\operatorname{Sec}[c+d x]}}, x, 8, 0\right\}$$

$$-\frac{4 a^3 (5 A+9 B+7 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{5 d}+$$

$$\frac{4 a^3 (35 A+21 B+13 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{21 d}+$$

$$\frac{4 a^3 (140 A+147 B+106 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{105 d}+\frac{2 a^2 (5 A+9 B+7 C) \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])\ \text{Sin}[c+d x]}{15 d}+$$

$$\frac{2 a (7 B+6 C) \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^2\ \text{Sin}[c+d x]}{35 d}+\frac{2 C \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])^3\ \text{Sin}[c+d x]}{7 d}$$

$$-\left(A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5\ \text{Csc}[c]\right.$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$\left.\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right)\Big/$$

$$\left(\sqrt{2}\ d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)-\left(9 B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5\right.$$

$$\text{Csc}[c]\ \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$\left.\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right)\Big/$$

$$\left(5 \sqrt{2}\ d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)-\left(7 C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5\ \text{Csc}[c]\right.$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right) \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6$$

$$\left.(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right)\Big/ \left(5 \sqrt{2}\ d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\frac{5 A \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{3 d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\ \text{Sec}[c+d x]^{9/2}}+$$

$$\frac{B \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\ \text{Sec}[c+d x]^{9/2}}+$$

$$\frac{13 C \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{21 d\ (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\ \text{Sec}[c+d x]^{9/2}}+$$

$$\frac{1}{(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\ \text{Sec}[c+d x]^{9/2}}$$

$$\text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(-\frac{(-25 A-36 B-28 C+5 A \text{Cos}[2 c])\ \text{Cos}[d x]\ \text{Csc}[c]}{20 d}+\right.$$

$$\frac{A \text{Cos}[c]\ \text{Sin}[d x]}{2 d}+\frac{C \text{Sec}[c]\ \text{Sec}[c+d x]^3\ \text{Sin}[d x]}{14 d}+\frac{\text{Sec}[c]\ \text{Sec}[c+d x]^2\ (5 C \text{Sin}[c]+7 B \text{Sin}[d x]+21 C \text{Sin}[d x])}{70 d}+$$

$$\left.\frac{\text{Sec}[c]\ \text{Sec}[c+d x]\ (21 B \text{Sin}[c]+63 C \text{Sin}[c]+35 A \text{Sin}[d x]+105 B \text{Sin}[d x]+130 C \text{Sin}[d x])}{210 d}+\frac{(7 A+21 B+26 C)\ \text{Tan}[c]}{42 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{4\,a^3\,(5\,A-5\,B-9\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{4\,a^3\,(5\,A+5\,B+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}+$$

$$\frac{4\,a^3\,(5\,A+20\,B+21\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d}-\frac{2\,a^2\,(5\,A-5\,B-9\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{15\,d}-$$

$$\frac{2\,a\,(5\,A-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left(A e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(\sqrt{2}\,d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-\left(B e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(\sqrt{2}\,d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-\left(9C e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5\sqrt{2}\,d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\frac{5A\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{9/2}}+$$

$$\frac{5B\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{9/2}}+$$

$$\frac{C\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{9/2}}+$$

$$\frac{1}{(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{9/2}}\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(-\frac{(5A-25B-36C+15A\,\text{Cos}[2c]+5B\,\text{Cos}[2c])\,\text{Cos}[dx]\,\text{Csc}[c]}{20d}+\frac{A\,\text{Cos}[2dx]\,\text{Sin}[2c]}{12d}+\frac{(3A+B)\,\text{Cos}[c]\,\text{Sin}[dx]}{2d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+dx]^2\,\text{Sin}[dx]}{10d}+\frac{\text{Sec}[c]\,\text{Sec}[c+dx]\,(3C\,\text{Sin}[c]+5B\,\text{Sin}[dx]+15C\,\text{Sin}[dx])}{30d}+\frac{A\,\text{Cos}[2c]\,\text{Sin}[2dx]}{12d}+\frac{(B+3C)\,\text{Tan}[c]}{6d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{\text{Sec}[c+dx]^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{4 a^3 (9 A+5 B-5 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 d}+$$

$$\frac{4 a^3 (3 A+5 B+5 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 d}-$$

$$\frac{4 a^3 (6 A-5 B-20 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}-\frac{2 a^2 (9 A+5 B-5 C) \sqrt{\text{Sec}[c+d x]}\ (a+a \text{Sec}[c+d x])\ \text{Sin}[c+d x]}{15 d}+$$

$$\frac{2 a (6 A+5 B) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{15 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 A (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{5 d \text{Sec}[c+d x]^{3/2}}$$

$$\left(9 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \left(B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(\sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) - \left(C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(\sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \frac{A \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{5 B \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{5 C \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} + \frac{1}{(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{(71 A+20 B-100 C+73 A \operatorname{Cos}[2 c]+60 B \operatorname{Cos}[2 c]+20 C \operatorname{Cos}[2 c]) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{80 d} + \frac{(3 A+B) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{12 d} + \frac{A \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{40 d} + \frac{(73 A+60 B+20 C) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{40 d} + \frac{C \operatorname{Sec}[c] \operatorname{Sec}[c+d x] \operatorname{Sin}[d x]}{6 d} + \frac{(3 A+B) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{12 d} + \frac{A \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{40 d} + \frac{C \operatorname{Tan}[c]}{6 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\operatorname{Sec}[c+d x]^{7/2}}, x, 8, 0\right\}$$

$$\frac{4 a^3 (7 A+9 B+5 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 d}+$$
$$\frac{4 a^3 (13 A+21 B+35 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{21 d}-$$
$$\frac{4 a^3 (41 A+42 B-35 C) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{105 d}+\frac{2 a^2 (7 A+9 B+5 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{15 d \sqrt{\text{Sec}[c+d x]}}+$$
$$\frac{2 a (6 A+7 B) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{35 d \text{Sec}[c+d x]^{3/2}}+\frac{2 A (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{7 d \text{Sec}[c+d x]^{5/2}}$$
$$\frac{1}{420 d} a^3 \sqrt{\text{Sec}[c+d x]}\ \Big(-2352 i A \text{Cos}[c+d x]-3024 i B \text{Cos}[c+d x]-$$
$$1680 i C \text{Cos}[c+d x]+80 (13 A+21 B+35 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]+$$
$$336 i (7 A+9 B+5 C) e^{-i (c+d x)} \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]+126 A \text{Sin}[c+d x]+$$
$$42 B \text{Sin}[c+d x]+840 C \text{Sin}[c+d x]+550 A \text{Sin}[2 (c+d x)]+420 B \text{Sin}[2 (c+d x)]+$$
$$140 C \text{Sin}[2 (c+d x)]+126 A \text{Sin}[3 (c+d x)]+42 B \text{Sin}[3 (c+d x)]+15 A \text{Sin}[4 (c+d x)]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{9/2}}, x, 8, 0\right\}$$

$$\frac{4 a^3 (17 A+21 B+27 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{15 d}+$$
$$\frac{4 a^3 (11 A+13 B+21 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{21 d}+$$
$$\frac{4 a^3 (32 A+41 B+42 C) \text{Sin}[c+d x]}{105 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (73 A+99 B+63 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d \text{Sec}[c+d x]^{3/2}}+$$
$$\frac{2 a (2 A+3 B) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d \text{Sec}[c+d x]^{5/2}}+\frac{2 A (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d \text{Sec}[c+d x]^{7/2}}$$
$$\frac{1}{2520 d} a^3 \sqrt{\text{Sec}[c+d x]}\ \Big(480 (11 A+13 B+21 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]+$$
$$672 i (17 A+21 B+27 C) e^{-i (c+d x)} \sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]+$$
$$2 \text{Cos}[c+d x] (-5712 i A-7056 i B-9072 i C+30 (97 A+107 B+84 C) \text{Sin}[c+d x]+$$
$$14 (73 A+54 B+18 C) \text{Sin}[2 (c+d x)]+270 A \text{Sin}[3 (c+d x)]+90 B \text{Sin}[3 (c+d x)]+35 A \text{Sin}[4 (c+d x)])\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{11/2}}, x, 9, 0\right\}$$

$$\frac{4 a^3 (15 A+17 B+21 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+$$
$$\frac{4 a^3 (105 A+121 B+143 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{231 d}+\frac{4 a^3 (210 A+253 B+264 C) \text{Sin}[c+d x]}{1155 d\ \text{Sec}[c+d x]^{3/2}}+$$
$$\frac{4 a^3 (105 A+121 B+143 C) \text{Sin}[c+d x]}{231 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (105 A+143 B+99 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{693 d\ \text{Sec}[c+d x]^{5/2}}+$$
$$\frac{2 a (6 A+11 B) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{99 d\ \text{Sec}[c+d x]^{7/2}}+\frac{2 A (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{11 d\ \text{Sec}[c+d x]^{9/2}}$$

$$\frac{1}{55440 d}$$
$$a^3 \sqrt{\text{Sec}[c+d x]}\left(960 (105 A+121 B+143 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+14784 i (15 A+17 B+21 C) e^{-i (c+d x)}\right.$$
$$\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]+2 \text{Cos}[c+d x] (-110880 i A-125664 i B-155232 i C+$$
$$30 (1953 A+2134 B+2354 C) \text{Sin}[c+d x]+308 (75 A+73 B+54 C) \text{Sin}[2 (c+d x)]+8505 A \text{Sin}[3 (c+d x)]+$$
$$\left.5940 B \text{Sin}[3 (c+d x)]+1980 C \text{Sin}[3 (c+d x)]+2310 A \text{Sin}[4 (c+d x)]+770 B \text{Sin}[4 (c+d x)]+315 A \text{Sin}[5 (c+d x)]\right)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{13/2}}, x, 10, 0\right\}$$

$$\frac{4 a^3 (175 A+195 B+221 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{195 d}+$$
$$\frac{4 a^3 (95 A+105 B+121 C) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{231 d}+$$
$$\frac{20 a^3 (236 A+273 B+286 C) \text{Sin}[c+d x]}{9009 d\ \text{Sec}[c+d x]^{5/2}}+\frac{4 a^3 (175 A+195 B+221 C) \text{Sin}[c+d x]}{585 d\ \text{Sec}[c+d x]^{3/2}}+$$
$$\frac{4 a^3 (95 A+105 B+121 C) \text{Sin}[c+d x]}{231 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 a^2 (145 A+195 B+143 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{1287 d\ \text{Sec}[c+d x]^{7/2}}+$$
$$\frac{2 a (6 A+13 B) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{143 d\ \text{Sec}[c+d x]^{9/2}}+\frac{2 A (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{13 d\ \text{Sec}[c+d x]^{11/2}}$$

$$\left(35 A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(39 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \left(B e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(\sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) + \left(17 C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right) \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(15 \sqrt{2}\, d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\frac{95 A \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{231 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} +$$

$$\frac{5 B \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{11 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} +$$

$$\frac{11 C \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} +$$

$$\frac{1}{(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{9/2}} \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{(59375 A+67080 B+77272 C+75025 A \operatorname{Cos}[2 c]+82680 B \operatorname{Cos}[2 c]+92456 C \operatorname{Cos}[2 c]) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{149760 d} + \frac{(4267 A+4473 B+4664 C) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{14784 d} + \frac{(9005 A+8580 B+7852 C) \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{74880 d} + \frac{(59 A+49 B+33 C) \operatorname{Cos}[4 d x] \operatorname{Sin}[4 c]}{1232 d} + \frac{(245 A+156 B+52 C) \operatorname{Cos}[5 d x] \operatorname{Sin}[5 c]}{14976 d} + \frac{(3 A+B) \operatorname{Cos}[6 d x] \operatorname{Sin}[6 c]}{704 d} + \frac{A \operatorname{Cos}[7 d x] \operatorname{Sin}[7 c]}{1664 d} + \frac{(75025 A+82680 B+92456 C) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{74880 d} + \frac{(4267 A+4473 B+4664 C) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{14784 d} + \frac{(9005 A+8580 B+7852 C) \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{74880 d} + \frac{(59 A+49 B+33 C) \operatorname{Cos}[4 c] \operatorname{Sin}[4 d x]}{1232 d} + \frac{(245 A+156 B+52 C) \operatorname{Cos}[5 c] \operatorname{Sin}[5 d x]}{14976 d} + \frac{(3 A+B) \operatorname{Cos}[6 c] \operatorname{Sin}[6 d x]}{704 d} + \frac{A \operatorname{Cos}[7 c] \operatorname{Sin}[7 d x]}{1664 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\ x,\ 8,\ 0\right\}$$

$$-\frac{3\,(5\,A-5\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,a\,d}-$$

$$\frac{(3\,A-5\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a\,d}+\frac{3\,(5\,A-5\,B+7\,C)\,\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{5\,a\,d}-$$

$$\frac{(3\,A-5\,B+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,a\,d}+\frac{(5\,A-5\,B+7\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(6\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)+$$

$$\left(6\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)-$$

$$\left(42\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)-$$

$$\frac{4A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}+$$

$$\frac{20B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}-$$

$$\frac{20C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{6(5A-5B+7C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{8C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,\mathrm{Sin}[dx]}{5d}+\frac{8\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\left(3C\,\mathrm{Sin}[c]+5B\,\mathrm{Sin}[dx]-5C\,\mathrm{Sin}[dx]\right)}{15d}-\frac{4\left(-2B+2C+3A\,\mathrm{Cos}[c]-5B\,\mathrm{Cos}[c]+5C\,\mathrm{Cos}[c]\right)\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}\right)\right)\Big/$$

$$\left(\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{a+a\,\mathrm{Sec}[c+dx]},\ x,\ 7,\ 0\right\}$$

$$\frac{(A-3B+3C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a\,d}+$$

$$\frac{(3A-3B+5C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3\,a\,d}-\frac{(A-3B+3C)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{a\,d}+$$

$$\frac{(3A-3B+5C)\ \text{Sec}[c+dx]^{3/2}\ \text{Sin}[c+dx]}{3\,a\,d}-\frac{(A-B+C)\ \text{Sec}[c+dx]^{5/2}\ \text{Sin}[c+dx]}{d\,(a+a\,\text{Sec}[c+dx])}$$

$$\left(2\sqrt{2}\ A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\right.$$

$$\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])\right)-$$

$$\left(6\sqrt{2}\ B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])\right)+$$

$$\left(6\sqrt{2}\ C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])\right)+$$

$$\frac{4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{\text{Sec}[c+dx]}\ (a+a\,\text{Sec}[c+dx])}-$$

$$\frac{4\,B\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{\text{Sec}[c+dx]}\ (a+a\,\text{Sec}[c+dx])}+$$

$$\frac{20\,C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{\text{Sec}[c+dx]}\ (a+a\,\text{Sec}[c+dx])}+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right.$$

$$\left(-\frac{2\,(A-3B+3C)\,\text{Cos}[dx]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\text{Sin}\left[\frac{dx}{2}\right]-B\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\right.$$

$$\left.\left.\frac{8\,C\,\text{Sec}[c]\,\text{Sec}[c+dx]\,\text{Sin}[dx]}{3\,d}+\frac{4\,(2C+3A\,\text{Cos}[c]-3B\,\text{Cos}[c]+5C\,\text{Cos}[c])\,\text{Sec}[c]\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{\text{Sec}[c+dx]}\ (a+a\,\text{Sec}[c+dx])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]}\,\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{a+a\,\text{Sec}[c+d x]},\ x,\ 6,\ 0\right\}$$

$$-\frac{(A-B+3C)\,\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a\,d}+$$

$$\frac{(A+B-C)\,\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a\,d}+$$

$$\frac{(A-B+3C)\,\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{a\,d}-\frac{(A-B+C)\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{d\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{a\,(A+2C+2B\,\text{Cos}[c+d x]+A\,\text{Cos}[2(c+d x)])\,(1+\text{Sec}[c+d x])}$$

$$\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\left(-\frac{1}{d}2\sqrt{2}\,A\,e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\,\text{Cos}[c+d x]\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)+$$

$$\frac{1}{d}2\sqrt{2}\,B\,e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\,\text{Cos}[c+d x]\,\text{Csc}[c]$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)-$$

$$\frac{1}{d}6\sqrt{2}\,C\,e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\,\text{Cos}[c+d x]\,\text{Csc}[c]$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)+$$

$$\frac{4A\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]}{d\sqrt{\text{Sec}[c+d x]}}+\frac{4B\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]}{d\sqrt{\text{Sec}[c+d x]}}-$$

$$\frac{4C\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]}{d\sqrt{\text{Sec}[c+d x]}}+$$

$$\left.\frac{2\left(2C\,\text{Cos}\left[\frac{1}{2}(c-d x)\right]+(A-B+C)\,\text{Cos}\left[\frac{1}{2}(3c+d x)\right]+(A-B+3C)\,\text{Cos}\left[\frac{1}{2}(c+3d x)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]}{d\sqrt{\text{Sec}[c+d x]}}\right)$$

$$\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2}{\sqrt{\text{Sec}[c+d x]}\,(a+a\,\text{Sec}[c+d x])},\ x,\ 5,\ 0\right\}$$

$$\frac{(3A-B+C)\,\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a\,d}-$$

$$\frac{(A-B-C)\,\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a\,d}-\frac{(A-B+C)\,\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{d\,(a+a\,\text{Sec}[c+d x])}$$

$$\frac{1}{a\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(\frac{1}{d}6\,\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}2\,\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{1}{d}2\,\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{4\,\left((2\,A-B+C)\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+A\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]\right)\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}-$$

$$\frac{4\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{4\,B\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\left.\frac{4\,C\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,6,\,0\right\}$$

$$-\frac{(3\,A-3\,B+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d}+$$

$$\frac{(5\,A-3\,B+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(5\,A-3\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{3\,a\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{d}18\sqrt{2}\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\right.$$

$$\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{1}{d}18\sqrt{2}\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)-$$

$$\frac{1}{d}6\sqrt{2}\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)+$$

$$\frac{20\,A\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{d\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{12\,B\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{d\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{12\,C\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{d\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\left.\frac{2\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\left((13\,A+6\,(-2\,B+C))\,\mathrm{Cos}\left[\frac{1}{2}\,(c-d\,x)\right]+(5\,A-6\,B)\,\mathrm{Cos}\left[\frac{1}{2}\,(3\,c+d\,x)\right]+2\,A\,\mathrm{Sin}[c]\,\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])},x,7,0\right\}$$

$$\frac{3\,(7\,A-5\,B+5\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,a\,d}-$$

$$\frac{(5\,A-5\,B+3\,C)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,d}+$$

$$\frac{(7\,A-5\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{(5\,A-5\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(42\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)-$$

$$\left(6\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)+$$

$$\left(6\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)-$$

$$\frac{20A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}+$$

$$\frac{20B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}-$$

$$\frac{4C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(51A-40B+40C+33A\,\mathrm{Cos}[2c]-20B\,\mathrm{Cos}[2c]+20C\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{10d}-\frac{4(A-B)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{3d}+\frac{2A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{5d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{2(33A-20B+20C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{5d}-\frac{4(A-B)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{3d}+\frac{2A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{5d}+\frac{4(A-B+C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{d}\right)\right)\Big/\left(\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^2},\ x,\ 8,\ 0\right\}$$

$$\frac{(A-4B+7C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a^2 d}+$$

$$\frac{(2A-5B+10C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3a^2 d}-\frac{(A-4B+7C)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{a^2 d}+$$

$$\frac{(2A-5B+10C)\ \text{Sec}[c+dx]^{3/2}\ \text{Sin}[c+dx]}{3a^2 d}-\frac{(A-B+C)\ \text{Sec}[c+dx]^{7/2}\ \text{Sin}[c+dx]}{3d\ (a+a\ \text{Sec}[c+dx])^2}-\frac{(A-4B+7C)\ \text{Sec}[c+dx]^{5/2}\ \text{Sin}[c+dx]}{3ad\ (a+a\ \text{Sec}[c+dx])}$$

$$\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(16\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(1+e^{2i(c+dx)}+\right.\right.$$

$$\left.\left.\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+\left(28\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\frac{16\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}-$$

$$\frac{40\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{80\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4\,(A-4B+7C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}-\right.$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(3\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-6\,B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+11\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3\,d}+\frac{16\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{3\,d}+$$

$$\left.\frac{8\,(2C+2A\,\mathrm{Cos}[c]-5B\,\mathrm{Cos}[c]+10C\,\mathrm{Cos}[c])\,\mathrm{Sec}[c]\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^2},\,x,\,7,\,0\right\}$$

$$\frac{(B-4C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a^2 d}+$$

$$\frac{(A+2B-5C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3a^2 d}-\frac{(B-4C)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{a^2 d}-$$

$$\frac{(A-B+C)\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{3d\,(a+a\,\text{Sec}[c+dx])^2}+\frac{(A+2B-5C)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3ad\,(a+a\,\text{Sec}[c+dx])}$$

$$\frac{1}{3a^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2(c+dx)])\,(1+\text{Sec}[c+dx])^2}\,\text{Cos}\left[\frac{1}{2}(c+dx)\right]^4$$

$$\left(\frac{12\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}-\right.$$

$$\frac{48\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}$$

$$+\frac{8A\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{d}+$$

$$\frac{16B\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{d}-$$

$$\frac{40C\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{d}-$$

$$\frac{1}{d}\left((A+5B-29C)\,\text{Cos}\left[\frac{1}{2}(c-dx)\right]-(A-7B+19C)\,\text{Cos}\left[\frac{1}{2}(3c+dx)\right]-A\,\text{Cos}\left[\frac{1}{2}(c+3dx)\right]+7B\,\text{Cos}\left[\frac{1}{2}(c+3dx)\right]-31C\right.$$

$$\text{Cos}\left[\frac{1}{2}(c+3dx)\right]+A\,\text{Cos}\left[\frac{1}{2}(5c+3dx)\right]+2B\,\text{Cos}\left[\frac{1}{2}(5c+3dx)\right]-5C\,\text{Cos}\left[\frac{1}{2}(5c+3dx)\right]+3B\,\text{Cos}\left[\frac{1}{2}(3c+5dx)\right]-$$

$$\left.\left.12C\,\text{Cos}\left[\frac{1}{2}(3c+5dx)\right]\right)\text{Csc}[c]\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^3\sqrt{\text{Sec}[c+dx]}\right)\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+dx]}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+a\,\text{Sec}[c+dx])^2},x,6,0\right\}$$

$$-\frac{(A-C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a^2 d}+$$

$$\frac{(2A+B+2C)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3a^2 d}-$$

$$\frac{(A-B+C)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3d\,(a+a\,\text{Sec}[c+dx])^2}+\frac{(A-C)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{ad\,(a+a\,\text{Sec}[c+dx])}$$

$$\frac{1}{3 a^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (1+\operatorname{Sec}[c+d x])^2}$$

$$\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^4 \left(-\frac{1}{d} 12 \sqrt{2} A e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)+\right.$$

$$\frac{12 \sqrt{2} C e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d}$$

$$+\frac{1}{d \sqrt{\operatorname{Sec}[c+d x]}} \left((5 A+B-7 C) \operatorname{Cos}\left[\frac{1}{2}(c-d x)\right]+(4 A-B-2 C) \operatorname{Cos}\left[\frac{1}{2}(3 c+d x)\right]+3 (A-C) \operatorname{Cos}\left[\frac{1}{2}(c+3 d x)\right]\right)$$

$$\operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^3+\frac{16 A \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}+$$

$$\frac{8 B \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}+$$

$$\left.\frac{16 C \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{\sqrt{\operatorname{Sec}[c+d x]} (a+a \operatorname{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$\frac{(4 A-B) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{a^2 d}-$$

$$\frac{(5 A-2 B-C) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{3 a^2 d}-$$

$$\frac{(A-B+C) \sqrt{\operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{3 d (a+a \operatorname{Sec}[c+d x])^2}-\frac{(5 A-2 B-C) \sqrt{\operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{3 a d (a+a \operatorname{Sec}[c+d x])}$$

$$\frac{1}{3a^2\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2(c+dx)]\right)\left(1+\mathrm{Sec}[c+dx]\right)^2}\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]^4$$

$$\left(\frac{48\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}-\right.$$

$$\frac{12\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)}{d}$$

$$-\frac{1}{d\sqrt{\mathrm{Sec}[c+dx]}}\left((20A-5B-C)\,\mathrm{Cos}\left[\frac{1}{2}(c-dx)\right]+(16A-4B+C)\,\mathrm{Cos}\left[\frac{1}{2}(3c+dx)\right]+\right.$$

$$\left.9A\,\mathrm{Cos}\left[\frac{1}{2}(c+3dx)\right]-3B\,\mathrm{Cos}\left[\frac{1}{2}(c+3dx)\right]+3A\,\mathrm{Cos}\left[\frac{1}{2}(5c+3dx)\right]\right)\mathrm{Csc}\left[\frac{c}{2}\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^3-\frac{40A\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{d}+$$

$$\frac{16B\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{d}+$$

$$\left.\frac{8C\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{d}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2}{\mathrm{Sec}[c+dx]^{3/2}\left(a+a\,\mathrm{Sec}[c+dx]\right)^2},x,7,0\right\}$$

$$-\frac{(7A-4B+C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{a^2d}+$$

$$\frac{(10A-5B+2C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}}{3a^2d}+\frac{(10A-5B+2C)\,\mathrm{Sin}[c+dx]}{3a^2d\sqrt{\mathrm{Sec}[c+dx]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+dx]}{3d\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)^2}-\frac{(7A-4B+C)\,\mathrm{Sin}[c+dx]}{3ad\sqrt{\mathrm{Sec}[c+dx]}\left(a+a\,\mathrm{Sec}[c+dx]\right)}$$

$$\frac{1}{3 a^2 \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]\right) (1+\operatorname{Sec}[c+d x])^2}$$

$$\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]^4 \left(-\frac{1}{d} 84 \sqrt{2}\, A\, e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)+\right.$$

$$\frac{48 \sqrt{2}\, B\, e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d}-$$

$$\frac{12 \sqrt{2}\, C\, e^{-i (2 c+d x)} \sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}} \operatorname{Csc}[c] \left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]\right)}{d}$$

$$+\frac{1}{2 d \sqrt{\operatorname{Sec}[c+d x]}} \left(2 (36 A+5 (-4 B+C)) \operatorname{Cos}\left[\frac{1}{2} (c-d x)\right]+(54 A-32 B+8 C) \operatorname{Cos}\left[\frac{1}{2} (3 c+d x)\right]+\right.$$

$$33 A \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]-18 B \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]+6 C \operatorname{Cos}\left[\frac{1}{2} (c+3 d x)\right]+9 A \operatorname{Cos}\left[\frac{1}{2} (5 c+3 d x)\right]-$$

$$\left.6 B \operatorname{Cos}\left[\frac{1}{2} (5 c+3 d x)\right]+A \operatorname{Cos}\left[\frac{1}{2} (3 c+5 d x)\right]-A \operatorname{Cos}\left[\frac{1}{2} (7 c+5 d x)\right]\right) \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^3+$$

$$\frac{80 A \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}-$$

$$\frac{40 B \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}+$$

$$\left.\frac{16 C \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{d}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{\operatorname{Sec}[c+d x]^{5/2} (a+a \operatorname{Sec}[c+d x])^2}, x, 8, 0\right\}$$

$$\frac{(56 A-35 B+20 C) \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{5 a^2 d}-$$

$$\frac{5 (3 A-2 B+C) \sqrt{\operatorname{Cos}[c+d x]}\, \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{3 a^2 d}+\frac{(56 A-35 B+20 C) \operatorname{Sin}[c+d x]}{15 a^2 d \operatorname{Sec}[c+d x]^{3/2}}-$$

$$\frac{5 (3 A-2 B+C) \operatorname{Sin}[c+d x]}{3 a^2 d \sqrt{\operatorname{Sec}[c+d x]}}-\frac{(A-B+C) \operatorname{Sin}[c+d x]}{3 d \operatorname{Sec}[c+d x]^{3/2} (a+a \operatorname{Sec}[c+d x])^2}-\frac{(3 A-2 B+C) \operatorname{Sin}[c+d x]}{a d \operatorname{Sec}[c+d x]^{3/2} (a+a \operatorname{Sec}[c+d x])}$$

$$\left(224\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(28\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(1+e^{2i(c+dx)}+\right.\right.$$

$$\left.\left.\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+\left(16\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\frac{40\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{80\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}-$$

$$\frac{40\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}+$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(151A-100B+60C+73A\,\mathrm{Cos}[2c]-40B\,\mathrm{Cos}[2c]+20C\,\mathrm{Cos}[2c])\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\right.$$

$$\frac{8\,(2A-B)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{3d}+\frac{4\,A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{5d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(13A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-10B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{4\,(73A-40B+20C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{5d}-$$

$$\left.\frac{8\,(2A-B)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{3d}+\frac{4\,A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{5d}+\frac{8\,(13A-10B+7C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{7/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^3},\,x,\,9,\,0\right\}$$

$$\frac{(9A-49B+119C)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{10a^3d}+$$

$$\frac{(3A-13B+33C)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{6a^3d}-\frac{(9A-49B+119C)\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{10a^3d}+$$

$$\frac{(3A-13B+33C)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{6a^3d}-\frac{(A-B+C)\,\text{Sec}[c+dx]^{9/2}\,\text{Sin}[c+dx]}{5d\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{(B-2C)\,\text{Sec}[c+dx]^{7/2}\,\text{Sin}[c+dx]}{3ad\,(a+a\,\text{Sec}[c+dx])^2}-\frac{(9A-49B+119C)\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{30a^2d\,(a+a\,\text{Sec}[c+dx])}$$

$$\left(36\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)-$$

$$\left(196\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)+$$

$$\left(476\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)+$$

$$\frac{8A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}-$$

$$\frac{104B\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{88\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{1}{(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,(9\,A-49\,B+119\,C)\,\text{Cos}[d\,x]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(3\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-8\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+13\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(6\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-11\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+26\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(27\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-87\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+197\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{32\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{3\,d}+\frac{8\,(4\,C+3\,A\,\text{Cos}[c]-13\,B\,\text{Cos}[c]+33\,C\,\text{Cos}[c])\,\text{Sec}[c]\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}+$$

$$\left.\frac{8\,(3\,A-8\,B+13\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{(A+9\,B-49\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(A+3\,B-13\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}-\frac{(A+9\,B-49\,C)\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{10\,a^3\,d}-$$

$$\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(2\,A+3\,B-8\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A+3\,B-13\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)+$$

$$\left(36\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)-$$

$$\left(196\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3\right)+$$

$$\frac{8A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}+$$

$$\frac{8B\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}-$$

$$\frac{104C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\left(a+a\,\text{Sec}[c+dx]\right)^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4(A+9B-49C)\,\text{Cos}[dx]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\text{Sin}\left[\frac{dx}{2}\right]+3B\,\text{Sin}\left[\frac{dx}{2}\right]-13C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\right.$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(2A\,\text{Sin}\left[\frac{dx}{2}\right]+3B\,\text{Sin}\left[\frac{dx}{2}\right]-8C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\text{Sin}\left[\frac{dx}{2}\right]-B\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}-\frac{8(-A-3B+13C)\,\text{Tan}\left[\frac{c}{2}\right]}{3d}+$$

$$\left.\frac{8(2A+3B-8C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 7,\ 0\right\}$$

$$-\frac{(A-B-9\,C)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(A+B+3\,C)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(4\,A+B-6\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-B-9\,C)\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(4\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)+$$

$$\left(4\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)+$$

$$\left(36\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3\right)+$$

$$\frac{8A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{8B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{8C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}+$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{4(A-B-9C)\,\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(7A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-2B\,\mathrm{Sin}\left[\frac{dx}{2}\right]-3C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\frac{8(A+B+3C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-$$

$$\left.\frac{8(7A-2B-3C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 7,\ 0\right\}$$

$$-\frac{(9\,A+B-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(3\,A+B+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(6\,A-B-4\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(3\,A+B+C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(36\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\text{Sec}[c+dx]$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)-$$

$$\left(4\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\text{Sec}[c+dx]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)+$$

$$\left(4\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\text{Sec}[c+dx]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3\right)+$$

$$\frac{8A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{8B\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{8C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{1}{(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(\frac{4(9A+B-C)\,\text{Cos}[dx]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(9A\,\text{Sin}\left[\frac{dx}{2}\right]-B\,\text{Sin}\left[\frac{dx}{2}\right]-C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{3d}-\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\text{Sin}\left[\frac{dx}{2}\right]-B\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(12A\,\text{Sin}\left[\frac{dx}{2}\right]-7B\,\text{Sin}\left[\frac{dx}{2}\right]+2C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{15d}-\frac{8(9A-B-C)\,\text{Tan}\left[\frac{c}{2}\right]}{3d}+$$

$$\left.\frac{8(12A-7B+2C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15d}-\frac{4(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3},\ x,\ 7,\ 0\right\}$$

$$\frac{(49\,A-9\,B-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}-$$

$$\frac{(13\,A-3\,B-C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}-\frac{(A-B+C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$

$$\frac{(8\,A-3\,B-2\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(13\,A-3\,B-C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(196\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-\left(36\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.\mathrm{Sec}[c+dx]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-\left(4\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-$$

$$\frac{104\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{4\left(39A-9B-C+10A\,\mathrm{Cos}[2c]\right)\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(23A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-9B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{3d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{5d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(17A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-12B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{15d}+\frac{32A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{d}+$$

$$\left.\frac{8\left(23A-9B+C\right)\mathrm{Tan}\left[\frac{c}{2}\right]}{3d}-\frac{8\left(17A-12B+7C\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15d}+\frac{4\left(A-B+C\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$-\frac{(119\,A-49\,B+9\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{10\,a^3\,d}+$$

$$\frac{(33\,A-13\,B+3\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^3\,d}+\frac{(33\,A-13\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{6\,a^3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\ (a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(2\,A-B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\ (a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(119\,A-49\,B+9\,C)\,\mathrm{Sin}[c+d\,x]}{30\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\ (a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(476\,\sqrt{2}\ A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)\mathrm{Sec}[c+d\,x]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(196\,\sqrt{2}\ B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(36\,\sqrt{2}\ C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\ \mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\ \mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\ \frac{1}{2},\ \frac{3}{4},\ -e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\frac{88\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\sqrt{\mathrm{Cos}[c+d\,x]}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\mathrm{Sec}[c+d\,x]^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{104\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{1}{(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,(89\,A-39\,B+9\,C+30\,A\,\text{Cos}[2\,c]-10\,B\,\text{Cos}[2\,c])\,\text{Cos}[d\,x]\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]}{5\,d}+\right.$$

$$\frac{16\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{3\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(43\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-23\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+9\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(22\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-17\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+12\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$

$$\frac{32\,(3\,A-B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+\frac{16\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{3\,d}-\frac{8\,(43\,A-23\,B+9\,C)\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}+$$

$$\left.\frac{8\,(22\,A-17\,B+12\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{7\,(33\,A-17\,B+7\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{10\,a^3\,d}-$$

$$\frac{(63\,A-33\,B+13\,C)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}}{6\,a^3\,d}+$$

$$\frac{7\,(33\,A-17\,B+7\,C)\,\text{Sin}[c+d\,x]}{30\,a^3\,d\,\text{Sec}[c+d\,x]^{3/2}}-\frac{(63\,A-33\,B+13\,C)\,\text{Sin}[c+d\,x]}{6\,a^3\,d\sqrt{\text{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3}-$$

$$\frac{(12\,A-7\,B+2\,C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(63\,A-33\,B+13\,C)\,\text{Sin}[c+d\,x]}{10\,a^2\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(924\sqrt{2}\,A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-$$

$$\left(476\sqrt{2}\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)+$$

$$\left(196\sqrt{2}\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)\mathrm{Sec}[c+dx]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3\right)-$$

$$\frac{168\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{88\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}-$$

$$\frac{104\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}+$$

$$\frac{1}{\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\left(a+a\,\mathrm{Sec}[c+dx]\right)^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{2\left(329A-178B+78C+133A\,\mathrm{Cos}[2c]-60B\,\mathrm{Cos}[2c]+20C\,\mathrm{Cos}[2c]\right)\mathrm{Cos}[dx]\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]}{5d}-\right.$$

$$\frac{16\,(3\,A-B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{3\,d}+\frac{8\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{5\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(27\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-22\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+17\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(69\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-43\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+23\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{8\,(133\,A-60\,B+20\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{5\,d}-$$

$$\frac{16\,(3\,A-B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{3\,d}+\frac{8\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{5\,d}+\frac{8\,(69\,A-43\,B+23\,C)\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}-$$

$$\left.\frac{8\,(27\,A-22\,B+17\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{a\,(48\,A+40\,B+35\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{32\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(48\,A+40\,B+35\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{64\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(48\,A+40\,B+35\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{96\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(8\,B+C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{24\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{7/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}$$

$$\frac{1}{384\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{1+\text{Sec}[c+d\,x]}}$$

$$\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Big((192\,A+160\,B+332\,C+(432\,A+77\,(8\,B+7\,C))\,\text{Cos}[c+d\,x]+$$

$$4\,(48\,A+40\,B+35\,C)\,\text{Cos}[2\,(c+d\,x)]+144\,A\,\text{Cos}[3\,(c+d\,x)]+120\,B\,\text{Cos}[3\,(c+d\,x)]+105\,C\,\text{Cos}[3\,(c+d\,x)])$$

$$\text{Sec}[c+d\,x]^{3/2}\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-12\,(48\,A+40\,B+35\,C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$

$$\left(\text{Log}[1+\text{Sec}[c+d\,x]]-\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{a\,(8\,A+6\,B+5\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(8\,A+6\,B+5\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(6\,B+C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{24\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big((24\,A+18\,B+31\,C+4\,(6\,B+5\,C)\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+6\,B+5\,C)\,\mathrm{Cos}[2\,(c+d\,x)])$$

$$\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,(8\,A+6\,B+5\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$\frac{a\,(8\,A+4\,B+3\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a\,(4\,B+C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\Bigg(\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{(2\,C+(4\,B+3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}}-(8\,A+4\,B+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)\Bigg)\Big/$$

$$\left(2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\ x,\ 4,\ 0\right\}$$

$$\frac{\sqrt{2}\,a\,(2\,B+C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a\,(2\,A-C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}$$

$$\left(2\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{(C+2\,A\,\text{Cos}[c+d\,x])\,\sqrt{1+\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Sec}[c+d\,x]^{3/2}}-(2\,B+C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]\right.$$

$$\left.\left.\left(\text{Log}[1+\text{Sec}[c+d\,x]]-\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Tan}[c+d\,x]^2}\right)\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{1+\text{Sec}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(A+3\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\left(4\,C\,\text{Cos}[c+d\,x]^3\left(-\text{Log}[1+\text{Sec}[c+d\,x]]+\text{Log}\left[2\left(\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)\right.$$

$$\left.\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}[c+d\,x]\right)\Big/$$

$$\left(d\,\left(1-\text{Cos}[c+d\,x]^2\right)\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Sec}[c+d\,x]}\right)+$$

$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{4\,(A+3\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{3\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+3\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\right.$$

$$\left.\left.\frac{4\,(A+3\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{3\,d}-\frac{4\,(A+3\,B)\,\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{1+\text{Sec}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{a^2\,(176\,A+150\,B+133\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{64\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(176\,A+150\,B+133\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{128\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(176\,A+150\,B+133\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{192\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(80\,A+90\,B+67\,C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{240\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(10\,B+3\,C)\,\text{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{40\,d}+\frac{C\,\text{Sec}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{7680\, d\, (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2(c+dx)])\,(1+\mathrm{Sec}[c+dx])^{3/2}\,(a(1+\mathrm{Sec}[c+dx]))^{3/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}$$
$$\Big((10480A+11550B+13313C+12(880A+1070B+1273C)\,\mathrm{Cos}[c+dx]+4(3280A+3450B+3059C)\,\mathrm{Cos}[2(c+dx)]+$$
$$3520A\,\mathrm{Cos}[3(c+dx)]+3000B\,\mathrm{Cos}[3(c+dx)]+2660C\,\mathrm{Cos}[3(c+dx)]+$$
$$2640A\,\mathrm{Cos}[4(c+dx)]+2250B\,\mathrm{Cos}[4(c+dx)]+1995C\,\mathrm{Cos}[4(c+dx)])\,\mathrm{Sec}[c+dx]^{5/2}$$
$$\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]-120(176A+150B+133C)\,\mathrm{Cos}[c+dx]^2\,\mathrm{Cot}[c+dx]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+dx]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+dx]}+\mathrm{Sec}[c+dx]^{3/2}+\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{\mathrm{Tan}[c+dx]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+dx]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+dx]^{3/2}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),\ x,\ 6,\ 0\right\}$$
$$\frac{a^2(112A+88B+75C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{32\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{a^2(112A+88B+75C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{64\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{a^2(48A+56B+39C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{96\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{a(8B+3C)\,\mathrm{Sec}[c+dx]^{5/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{24\,d}+\frac{C\,\mathrm{Sec}[c+dx]^{5/2}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{4\,d}$$

$$\frac{1}{384\, d\, (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2(c+dx)])\,(1+\mathrm{Sec}[c+dx])^{3/2}\,(a(1+\mathrm{Sec}[c+dx]))^{3/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}$$
$$\Big((192A+352B+492C+(1008A+1048B+1155C)\,\mathrm{Cos}[c+dx]+4(48A+88B+75C)\,\mathrm{Cos}[2(c+dx)]+$$
$$336A\,\mathrm{Cos}[3(c+dx)]+264B\,\mathrm{Cos}[3(c+dx)]+225C\,\mathrm{Cos}[3(c+dx)])$$
$$\mathrm{Sec}[c+dx]^{3/2}\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]-12(112A+88B+75C)\,\mathrm{Cos}[c+dx]^2\,\mathrm{Cot}[c+dx]$$
$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+dx]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+dx]}+\mathrm{Sec}[c+dx]^{3/2}+\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{\mathrm{Tan}[c+dx]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+dx]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),\ x,\ 5,\ 0\right\}$$
$$\frac{a^2(24A+14B+11C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{4\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{a^2(24A+30B+19C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{24\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{a(2B+C)\,\mathrm{Sec}[c+dx]^{3/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{4\,d}+$$
$$\frac{C\,\mathrm{Sec}[c+dx]^{3/2}\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{3\,d}$$

$$\frac{1}{24\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Big((24\,A+42\,B+49\,C+4\,(6\,B+11\,C)\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+14\,B+11\,C)\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,(24\,A+14\,B+11\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\;\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$\frac{a^2\,(8\,A+12\,B+7\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(8\,A-4\,B-5\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,(4\,B+3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d}+$$

$$\frac{C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\Bigg((a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{((4\,B+7\,C)\,\mathrm{Cos}[c+d\,x]+2\,(2\,A+C+2\,A\,\mathrm{Cos}[2\,(c+d\,x)]))\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}}-(8\,A+12\,B+7\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]-\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\;\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)\Bigg)\Big/$$

$$\left(2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,5,\,0\right\}$$

$$\frac{\sqrt{2}\,a^2\,(2\,B+3\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(8\,A+6\,B-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{a\,(2\,A-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left(2\,(2\,B+3\,C)\,\mathrm{Cos}[c+d\,x]^3\left(-\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(d\left(1-\mathrm{Cos}[c+d\,x]^2\right)(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)+\left(\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{4\,(4\,A+3\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{2\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{3\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(8\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+6\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-3\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{4\,(4\,A+3\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{3\,d}-\frac{2\,(8\,A+6\,B-3\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{5/2}},\ x,\ 5,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a^2\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,(12\,A+20\,B+15\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,(3\,A+5\,B)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$\left(4\,C\,\mathrm{Cos}[c+d\,x]^3\left(-\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(d\left(1-\mathrm{Cos}[c+d\,x]^2\right)(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)+\left(\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{(51\,A+80\,B+60\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{15\,d}+\frac{2\,(6\,A+5\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{15\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{5\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(12\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+20\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+15\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{(51\,A+80\,B+60\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{15\,d}+\frac{2\,(6\,A+5\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{15\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{5\,d}-\frac{4\,(12\,A+20\,B+15\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}\right)\right)\Big/\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{a^3 (1304 A + 1132 B + 1015 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{256 \sqrt{2} d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (1304 A + 1132 B + 1015 C) \text{Sec}[c + d x]^{3/2} \text{Sin}[c + d x]}{512 d \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (1304 A + 1132 B + 1015 C) \text{Sec}[c + d x]^{5/2} \text{Sin}[c + d x]}{768 d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (680 A + 628 B + 545 C) \text{Sec}[c + d x]^{7/2} \text{Sin}[c + d x]}{960 d \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (120 A + 156 B + 115 C) \text{Sec}[c + d x]^{7/2} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{480 d} +$$

$$\frac{a (12 B + 5 C) \text{Sec}[c + d x]^{7/2} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{60 d} + \frac{C \text{Sec}[c + d x]^{7/2} (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{6 d}$$

$$\frac{1}{61440 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^{5/2}}$$
$$(a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$
$$\Big((93600 A + 112464 B + 137060 C + (283920 A + 303048 B + 321370 C) \text{Cos}[c + d x] + 16 (7480 A + 8444 B + 8555 C) \text{Cos}[2 (c + d x)] +$$
$$127240 A \text{Cos}[3 (c + d x)] + 121124 B \text{Cos}[3 (c + d x)] + 108605 C \text{Cos}[3 (c + d x)] + 26080 A \text{Cos}[4 (c + d x)] + 22640 B \text{Cos}[$$
$$4 (c + d x)] + 20300 C \text{Cos}[4 (c + d x)] + 19560 A \text{Cos}[5 (c + d x)] + 16980 B \text{Cos}[5 (c + d x)] + 15225 C \text{Cos}[5 (c + d x)])$$
$$\text{Sec}[c + d x]^{7/2} \sqrt{1 + \text{Sec}[c + d x]} \text{Tan}\left[\frac{1}{2} (c + d x)\right] - 240 (1304 A + 1132 B + 1015 C) \text{Cos}[c + d x]^2 \text{Cot}[c + d x]$$
$$\left(\text{Log}[1 + \text{Sec}[c + d x]] - \text{Log}\left[2 \left(\sqrt{\text{Sec}[c + d x]} + \text{Sec}[c + d x]^{3/2} + \sqrt{1 + \text{Sec}[c + d x]} \sqrt{\text{Tan}[c + d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c + d x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$\frac{a^3 (400 A + 326 B + 283 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{64 \sqrt{2} d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (400 A + 326 B + 283 C) \text{Sec}[c + d x]^{3/2} \text{Sin}[c + d x]}{128 d \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^3 (1040 A + 950 B + 787 C) \text{Sec}[c + d x]^{5/2} \text{Sin}[c + d x]}{960 d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^2 (80 A + 110 B + 79 C) \text{Sec}[c + d x]^{5/2} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{240 d} +$$

$$\frac{a (2 B + C) \text{Sec}[c + d x]^{5/2} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{8 d} + \frac{C \text{Sec}[c + d x]^{5/2} (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{5 d}$$

$$\frac{1}{7680 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^{5/2}}$$
$$(a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$
$$\Big((20560 A + 22030 B + 24863 C + 12 (1360 A + 1950 B + 2343 C) \text{Cos}[c + d x] + 4 (6640 A + 6730 B + 6509 C) \text{Cos}[2 (c + d x)] +$$
$$5440 A \text{Cos}[3 (c + d x)] + 6520 B \text{Cos}[3 (c + d x)] + 5660 C \text{Cos}[3 (c + d x)] +$$
$$6000 A \text{Cos}[4 (c + d x)] + 4890 B \text{Cos}[4 (c + d x)] + 4245 C \text{Cos}[4 (c + d x)]) \text{Sec}[c + d x]^{5/2}$$
$$\sqrt{1 + \text{Sec}[c + d x]} \text{Tan}\left[\frac{1}{2} (c + d x)\right] - 120 (400 A + 326 B + 283 C) \text{Cos}[c + d x]^2 \text{Cot}[c + d x]$$
$$\left(\text{Log}[1 + \text{Sec}[c + d x]] - \text{Log}\left[2 \left(\sqrt{\text{Sec}[c + d x]} + \text{Sec}[c + d x]^{3/2} + \sqrt{1 + \text{Sec}[c + d x]} \sqrt{\text{Tan}[c + d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c + d x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Sec}[c + d x]} (a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{a^3 (304 A + 200 B + 163 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{32 \sqrt{2} d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (432 A + 392 B + 299 C) \text{Sec}[c + d x]^{3/2} \text{Sin}[c + d x]}{192 d \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (16 A + 24 B + 17 C) \text{Sec}[c + d x]^{3/2} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{32 d} +$$

$$\frac{a (8 B + 5 C) \text{Sec}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{24 d} + \frac{C \text{Sec}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{4 d}$$

$$\frac{1}{384 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^{5/2}}$$
$$(a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$
$$\Big((192 A + 544 B + 844 C + (1584 A + 2056 B + 2203 C) \text{Cos}[c + d x] + 4 (48 A + 136 B + 163 C) \text{Cos}[2 (c + d x)] +$$
$$528 A \text{Cos}[3 (c + d x)] + 600 B \text{Cos}[3 (c + d x)] + 489 C \text{Cos}[3 (c + d x)]) \text{Sec}[c + d x]^{3/2}$$
$$\sqrt{1 + \text{Sec}[c + d x]} \text{Tan}\left[\frac{1}{2} (c + d x)\right] - 12 (304 A + 200 B + 163 C) \text{Cos}[c + d x]^2 \text{Cot}[c + d x]$$
$$\left(\text{Log}[1 + \text{Sec}[c + d x]] - \text{Log}\left[2 \left(\sqrt{\text{Sec}[c + d x]} + \text{Sec}[c + d x]^{3/2} + \sqrt{1 + \text{Sec}[c + d x]} \sqrt{\text{Tan}[c + d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c + d x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{(a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{\sqrt{\text{Sec}[c + d x]}}, x, 6, 0\right\}$$

$$\frac{a^3 (40 A + 38 B + 25 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{4 \sqrt{2} d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (24 A - 54 B - 49 C) \sqrt{\text{Sec}[c + d x]} \text{Sin}[c + d x]}{24 d \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (24 A + 42 B + 31 C) \sqrt{\text{Sec}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{24 d} +$$

$$\frac{a (6 B + 5 C) \sqrt{\text{Sec}[c + d x]} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{12 d} + \frac{C \sqrt{\text{Sec}[c + d x]} (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{3 d}$$

$$\frac{1}{24 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^{5/2}}$$
$$(a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$
$$\Big((24 A + 66 B + 91 C + 4 (18 A + 6 B + 17 C) \text{Cos}[c + d x] + 3 (8 A + 22 B + 25 C) \text{Cos}[2 (c + d x)] + 24 A \text{Cos}[3 (c + d x)])$$
$$\sqrt{\text{Sec}[c + d x]} \sqrt{1 + \text{Sec}[c + d x]} \text{Tan}\left[\frac{1}{2} (c + d x)\right] - 6 (40 A + 38 B + 25 C) \text{Cos}[c + d x]^2 \text{Cot}[c + d x]$$
$$\left(\text{Log}[1 + \text{Sec}[c + d x]] - \text{Log}\left[2 \left(\sqrt{\text{Sec}[c + d x]} + \text{Sec}[c + d x]^{3/2} + \sqrt{1 + \text{Sec}[c + d x]} \sqrt{\text{Tan}[c + d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c + d x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{(a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{\text{Sec}[c + d x]^{3/2}}, x, 6, 0\right\}$$

$$\frac{a^3 (8 A + 20 B + 19 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{2 \sqrt{2} d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (56 A + 12 B - 27 C) \sqrt{\text{Sec}[c + d x]} \text{Sin}[c + d x]}{12 d \sqrt{a + a \text{Sec}[c + d x]}} - \frac{a^2 (8 A - 12 B - 21 C) \sqrt{\text{Sec}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{12 d} -$$

$$\frac{a (4 A - 3 C) \sqrt{\text{Sec}[c + d x]} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{6 d} + \frac{2 A (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{3 d \sqrt{\text{Sec}[c + d x]}}$$

$$\Bigg((a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$

$$\Bigg(\frac{(3 (2 A + 4 B + 11 C) \text{Cos}[c + d x] + 2 (16 A + 6 B + 3 C + 2 (8 A + 3 B) \text{Cos}[2 (c + d x)] + A \text{Cos}[3 (c + d x)])) \text{Tan}\left[\frac{1}{2} (c + d x)\right]}{\sqrt{\frac{1}{1+\text{Cos}[c+d x]}}} -$$

$$3 (8 A + 20 B + 19 C) \text{Cos}[c + d x]^2 \text{Cot}[c + d x]$$

$$\left(\text{Log}[1 + \text{Sec}[c + d x]] - \text{Log}\left[2 \left(\sqrt{\text{Sec}[c + d x]} + \text{Sec}[c + d x]^{3/2} + \sqrt{1 + \text{Sec}[c + d x]} \sqrt{\text{Tan}[c + d x]^2}\right)\right]\right) \sqrt{\text{Tan}[c + d x]^2} \Bigg) \Bigg) \Big/$$

$$\left(6 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)}{\text{Sec}[c + d x]^{5/2}}, x, 6, 0\right\}$$

$$\frac{\sqrt{2} a^3 (2 B + 5 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right] \sqrt{\text{Sec}[c + d x]}}{d \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^3 (64 A + 70 B + 15 C) \sqrt{\text{Sec}[c + d x]} \text{Sin}[c + d x]}{15 d \sqrt{a + a \text{Sec}[c + d x]}} - \frac{a^2 (16 A + 10 B - 15 C) \sqrt{\text{Sec}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{15 d} +$$

$$\frac{2 a (A + B) (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{3 d \sqrt{\text{Sec}[c + d x]}} + \frac{2 A (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{5 d \text{Sec}[c + d x]^{3/2}}$$

$$\left(2\,(2\,B+5\,C)\,\mathrm{Cos}[c+d\,x]^3\left(-\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(d\left(1-\mathrm{Cos}[c+d\,x]^2\right)(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\right)+\left(\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{(131\,A+140\,B+60\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{15\,d}+\frac{2\,(11\,A+5\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{15\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{5\,d}-\frac{2\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(64\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+70\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+15\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{(131\,A+140\,B+60\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{15\,d}+\frac{2\,(11\,A+5\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{15\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{5\,d}-\frac{2\,(64\,A+70\,B+15\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}\right)\right)\Big/\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{7/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\sqrt{2}\,a^3\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^3\,(160\,A+224\,B+245\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,(40\,A+56\,B+35\,C)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,(5\,A+7\,B)\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$\left(4\,C\,\mathrm{Cos}[c+d\,x]^3\left(-\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+\mathrm{Log}\left[2\left(\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(d\left(1-\mathrm{Cos}[c+d\,x]^2\right)(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(1+\mathrm{Sec}[c+d\,x])^{5/2}\right)+\frac{1}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,(1+\mathrm{Sec}[c+d\,x])^{5/2}}\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{(685\,A+917\,B+980\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{105\,d}+\frac{(155\,A+154\,B+70\,C)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{105\,d}+\frac{(15\,A+7\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{14\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(160\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+224\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+245\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+\frac{(685\,A+917\,B+980\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,d}+\frac{(155\,A+154\,B+70\,C)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{105\,d}+\frac{(15\,A+7\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{14\,d}-\frac{4\,(160\,A+224\,B+245\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(8\,A-14\,B+9\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A-2\,B+7\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{8\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(6\,B-C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{12\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\Bigg(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg(\frac{(12\,B-10\,C+24\,A\,\text{Cos}[c]-6\,B\,\text{Cos}[c]+21\,C\,\text{Cos}[c])\,\text{Sin}\left[\frac{c}{2}\right]}{6\,d\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}\right]\right)}+$$

$$\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(24\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-18\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+31\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{12\,d}+$$

$$\frac{2\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(4\,C\,\text{Sin}[c]+6\,B\,\text{Sin}[d\,x]-5\,C\,\text{Sin}[d\,x])}{6\,d}\Bigg)\Bigg)\Bigg/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a\,(1+\text{Sec}[c+d\,x])}\right)+$$

$$\frac{1}{8\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\text{Cos}[c+d\,x]^2\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{1}{4\,d\,(1+\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)}\,(-8\,A+14\,B-9\,C)\,\text{Cos}[c+d\,x]^2$$

$$\Big(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+d\,x]]+8\,\text{Log}\Big[\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\Big]+$$

$$\sqrt{2}\,\text{Log}\Big[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\Big]-$$

$$\sqrt{2}\,\text{Log}\Big[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\Big]\Big)$$

$$(1+\text{Sec}[c+d\,x])\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]+$$

$$\frac{1}{2\,d\,(1+\text{Cos}[c+d\,x])\,\sqrt{2-2\,\text{Cos}[c+d\,x]^2}\,\sqrt{1-\text{Cos}[c+d\,x]^2}}\,(8\,A-2\,B+7\,C)\,\text{Cos}[c+d\,x]^2$$

$$\Big(-\text{Log}\Big[8\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\Big]+$$

$$\text{Log}\Big[8\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\Big]\Big)$$

$$(1+\text{Sec}[c+d\,x])\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A-4\,B+7\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,\sqrt{2}\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(4\,B-C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{16\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{8\,(-2\,C+(-4\,B+C)\,\text{Cos}[c+d\,x])\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}}+\frac{1}{1+\text{Cos}[c+d\,x]}\,\text{Cos}[c+d\,x]^3\,\text{Cot}[c+d\,x]\,\Big((8\,A-4\,B+7\,C)$$

$$\Big(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+d\,x]]+8\,\text{Log}\left[\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]+$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]-$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right]\Big)+$$

$$\sqrt{2}\,(4\,B-C)\,\Big(-\text{Log}\Big[8\,\Big(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\Big)\Big]+$$

$$\text{Log}\Big[8\,\Big(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}$$

$$\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\Big)\Big]\Big)\Big)\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\sqrt{2}\,(2\,B-C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\sqrt{1+\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,C\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Sec}[c+d\,x]^{3/2}}+(2\,B-C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]\right.$$

$$\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]\right)$$

$$\sqrt{\mathrm{Tan}[c+d\,x]^2}-\sqrt{2}\,(2\,A+C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,(A-B+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,A\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{1}{1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Cot}[c+d\,x]\right.$$

$$\left(-C\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]+\right.\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right]\right)+$$

$$\sqrt{2}\,(A-B)\left(-\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]+\right.$$

$$\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\right.\right.$$

$$\left.\left.\left.\left.\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\right)\,(1+\mathrm{Sec}[c+d\,x])\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\,x,\,4,\,0\right\}$$

$$\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,A\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{2\,(A-3\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,(-A+3\,B+A\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{1+\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\text{Sec}[c+d\,x]^{3/2}}-\right.$$

$$3\,\sqrt{2}\,(A-B+C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$

$$\left(\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\text{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A-5\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,(13\,A-5\,B+15\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}\sqrt{1+\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{1}{15\,d\,\text{Sec}[c+d\,x]^{3/2}}2\,(29\,A-10\,B+30\,C-2\,(A-5\,B)\,\text{Cos}[c+d\,x]+3\,A\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]\right.$$

$$\sqrt{1+\text{Sec}[c+d\,x]}\,\left(-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\frac{1}{d}\,\sqrt{2}\,(A-B+C)\,\text{Cos}[c+d\,x]^2\,\text{Cot}[c+d\,x]$$

$$\left(\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\text{Log}\left[8\,\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{\text{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\text{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,A\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{2\,(A-7\,B)\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(31\,A-7\,B+35\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{2\,(43\,A-91\,B+35\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\Bigg((A-B+C)\,\mathrm{Cos}[c+d\,x]^4\left(-\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]+\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)(1+\mathrm{Sec}[c+d\,x])^{3/2}\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sin}[c+d\,x]\Bigg)\Big/\Bigg(d\,(1+\mathrm{Cos}[c+d\,x])\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\Bigg)+$$

$$\frac{1}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}}$$

$$\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{(386\,A-497\,B+280\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{105\,d}+\frac{(113\,A-56\,B+70\,C)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{105\,d}-\frac{(6\,A-7\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{14\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(92\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-119\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+70\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}-\frac{(386\,A-497\,B+280\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,d}+\frac{(113\,A-56\,B+70\,C)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{105\,d}-\frac{(6\,A-7\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{35\,d}+\frac{A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{14\,d}+\frac{4\,(92\,A-119\,B+70\,C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(a\,A+(A\,b+a\,B)\,\mathrm{Sec}[c+d\,x]+b\,B\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(a\,A-A\,b-a\,B+b\,B)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{\sqrt{2}\,(2\,A\,b+2\,a\,B-b\,B)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{b\,B\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}}$$

$$\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(2\,i\,\sqrt{2}\,(-2\,A\,b+(-2\,a+b)\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(-1+\sqrt{2}\right)\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(1+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]+\right.$$

$$2\,i\,\sqrt{2}\,(-2\,A\,b+(-2\,a+b)\,B)\,\text{ArcTan}\left[\frac{\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\left(1+\sqrt{2}\right)\,\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}{\left(-1+\sqrt{2}\right)\,\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]}\right]-$$

$$8\,(a-b)\,(A-B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+8\,(a-b)\,(A-B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{4}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{4}\,(c+d\,x)\right]\right]+$$

$$\frac{2\left(2+i\,\sqrt{2}\right)\,(2\,A\,b+2\,a\,B-b\,B)\,\text{Log}\left[\sqrt{2}+2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{i+\sqrt{2}}+$$

$$\sqrt{2}\,(-2\,A\,b+(-2\,a+b)\,B)\,\text{Log}\left[4+2\,\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\sqrt{2}\,(-2\,A\,b+(-2\,a+b)\,B)\,\text{Log}\left[-2\left(-2+\sqrt{2}\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right]+$$

$$\left.\frac{4\,b\,B}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-\frac{4\,b\,B}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$-\frac{(5\,A-9\,B+13\,C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A-12\,B+19\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,\sqrt{2}\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}-$$

$$\frac{(2\,A-6\,B+7\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(A-B+2\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\left(\sqrt{(1+\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]}\;(1+\text{Sec}[c+d\,x])^{3/2}\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{(-2\,C+2\,A\,\text{Cos}[c]-6\,B\,\text{Cos}[c]+7\,C\,\text{Cos}[c])\,\text{Sin}\left[\frac{c}{2}\right]}{d\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(A\,\text{Sin}\left[\frac{c}{2}\right]-B\,\text{Sin}\left[\frac{c}{2}\right]+C\,\text{Sin}\left[\frac{c}{2}\right]\right)}{2\,d}+\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(-2\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]+6\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-9\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,d}+$$

$$\left.\left.\frac{\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\right)+$$

$$\frac{1}{4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}}$$

$$\text{Cos}[c+d\,x]^2\,(1+\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{1}{4\,d\,(1+\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)}(-8\,A+12\,B-19\,C)\,\text{Cos}[c+d\,x]^2\right.$$

$$\left(\text{Log}[256]-8\,\text{Log}[1+\text{Sec}[c+d\,x]]+8\,\text{Log}\left[\sqrt{\text{Sec}[c+d\,x]}+\text{Sec}[c+d\,x]^{3/2}+\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right]+\right.$$

$$\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right]\right)$$

$$(1+\text{Sec}[c+d\,x])\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]-$$

$$\frac{1}{2\,d\,(1+\text{Cos}[c+d\,x])\,\sqrt{2-2\,\text{Cos}[c+d\,x]^2}\,\sqrt{1-\text{Cos}[c+d\,x]^2}}(2\,A-6\,B+7\,C)\,\text{Cos}[c+d\,x]^2$$

$$\left(-\text{Log}\left[8\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]+\right.$$

$$\left.\text{Log}\left[8\left(-1+2\,\text{Sec}[c+d\,x]+3\,\text{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\right)\right]\right)$$

$$\left.(1+\text{Sec}[c+d\,x])\,\sqrt{-1+\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(A-5\,B+9\,C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\sqrt{2}\,(2\,B-3\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{2\,d\,(a+a\,\text{Sec}[c+d\,x])^{3/2}}+\frac{(A-B+3\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{4\,(2\,C+(A-B+3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Sec}[c+d\,x]^{3/2}}+\right.$$

$$\frac{1}{1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Cot}[c+d\,x]\,\Big((4\,B-6\,C)$$

$$\Big(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]+$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]-$$

$$\sqrt{2}\,\mathrm{Log}\Big[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big]\Big)+\sqrt{2}$$

$$(A-B+3\,C)\,\Big(-\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]+$$

$$\mathrm{Log}\Big[8\,\Big(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)\Big]\Big)\Big)\,(1+\mathrm{Sec}[c+d\,x])\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\Big)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(3\,A+B-5\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}[c+d\,x]^2\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{d\,(1+\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,C\,\mathrm{Cos}[c+d\,x]^2\right.$$

$$\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+d\,x]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+d\,x]}+\mathrm{Sec}[c+d\,x]^{3/2}+\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right]\right)$$

$$(1+\mathrm{Sec}[c+d\,x])\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]+$$

$$\frac{1}{2\,d\,(1+\mathrm{Cos}[c+d\,x])\,\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}\,(3\,A+B-C)\,\mathrm{Cos}[c+d\,x]^2$$

$$\left(-\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]+\right.$$

$$\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\right)\right]\right)$$

$$\left.(1+\mathrm{Sec}[c+d\,x])\,\sqrt{-1+\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\left(\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]-B\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{2\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\right.$$

$$\left.\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,d}-\frac{(A-B+C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 4,\ 0\right\}$$

$$-\frac{(7\,A-3\,B-C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(5\,A-B+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{2\,(5\,A-B+C+4\,A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}+\right.$$

$$\sqrt{2}\,(7\,A-3\,B-C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,5,\,0\right\}$$

$$\frac{(11\,A-7\,B+3\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{(7\,A-3\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(19\,A-15\,B+3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{6\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{24\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$(1+\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}2\,(17\,A-15\,B+3\,C+12\,(A-B)\,\mathrm{Cos}[c+d\,x]-2\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right.$$

$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)-3\,\sqrt{2}\,(11\,A-7\,B+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$

$$\left(\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\left.\mathrm{Log}\left[8\,\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,6,\,0\right\}$$

$$-\frac{(15\,A-11\,B+7\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(9\,A-5\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(39\,A-35\,B+15\,C)\,\mathrm{Sin}[c+d\,x]}{30\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{(147\,A-95\,B+75\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{30\,a\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$(1+\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{1}{15\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}\right.$$

$$2\,(141\,A-85\,B+75\,C+3\,(39\,A+20\,(-B+C))\,\mathrm{Cos}[c+d\,x]+(-6\,A+10\,B)\,\mathrm{Cos}[2\,(c+d\,x)]+3\,A\,\mathrm{Cos}[3\,(c+d\,x)])$$

$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\frac{1}{d}\sqrt{2}\,(15\,A-11\,B+7\,C)\,\mathrm{Cos}[c+d\,x]^2$$

$$\mathrm{Cot}[c+d\,x]\,\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$

$$\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{(3\,A-43\,B+115\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\sqrt{2}\,(2\,B-5\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sec}[c+d\,x]^{7/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+$$

$$\frac{(A+7\,B-15\,C)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(3\,A-11\,B+35\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{16\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}\mathrm{Cos}[c+dx]^2\,(1+\mathrm{Sec}[c+dx])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{1}{4d\,(1+\mathrm{Cos}[c+dx])\,\left(1-\mathrm{Cos}[c+dx]^2\right)}(32B-80C)\,\mathrm{Cos}[c+dx]^2\right.$$

$$\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+dx]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+dx]}+\mathrm{Sec}[c+dx]^{3/2}+\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]\right)$$

$$(1+\mathrm{Sec}[c+dx])\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\,\mathrm{Sin}[c+dx]+$$

$$\frac{1}{2d\,(1+\mathrm{Cos}[c+dx])\,\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}(3A-11B+35C)\,\mathrm{Cos}[c+dx]^2$$

$$\left(-\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right)\right]+\right.$$

$$\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right)\right]\right)$$

$$\left.(1+\mathrm{Sec}[c+dx])\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\,\mathrm{Sin}[c+dx]\right)+$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{3/2}\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}$$

$$(1+\mathrm{Sec}[c+dx])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]+7B\,\mathrm{Sin}\left[\frac{c}{2}\right]-15C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{16d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]+B\,\mathrm{Sin}\left[\frac{c}{2}\right]-C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{8d}+\right.$$

$$\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7B\,\mathrm{Sin}\left[\frac{dx}{2}\right]-15C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{16d}+$$

$$\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(-A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]-C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8d}+$$

$$\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(3A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-11B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+35C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8d}+\frac{(3A-11B+35C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{8d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(5A+3B-43C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{16a^2d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{2\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{a^2d\sqrt{a+a\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sec}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{4d\,(a+a\,\mathrm{Sec}[c+dx])^{5/2}}+\frac{(5A+3B-11C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{16ad\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}}$$

$$\frac{1}{16\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\mathrm{Cos}[c+dx]^2\,(1+\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{1}{d\,(1+\mathrm{Cos}[c+dx])\,\left(1-\mathrm{Cos}[c+dx]^2\right)}\,8\,C\,\mathrm{Cos}[c+dx]^2\right.$$

$$\left(\mathrm{Log}[256]-8\,\mathrm{Log}[1+\mathrm{Sec}[c+dx]]+8\,\mathrm{Log}\left[\sqrt{\mathrm{Sec}[c+dx]}+\mathrm{Sec}[c+dx]^{3/2}+\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right]\right)$$

$$(1+\mathrm{Sec}[c+dx])\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\,\mathrm{Sin}[c+dx]+$$

$$\frac{1}{2\,d\,(1+\mathrm{Cos}[c+dx])\,\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}\,(5A+3B-11C)\,\mathrm{Cos}[c+dx]^2$$

$$\left(-\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right)\right]+\right.$$

$$\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+dx]+3\,\mathrm{Sec}[c+dx]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\right)\right]\right)$$

$$\left.(1+\mathrm{Sec}[c+dx])\,\sqrt{-1+\mathrm{Sec}[c+dx]^2}\,\mathrm{Sin}[c+dx]\right)+$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{3/2}\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}$$

$$(1+\mathrm{Sec}[c+dx])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]-B\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{8\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(-9\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]+B\,\mathrm{Sin}\left[\frac{c}{2}\right]+7\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{16\,d}+\right.$$

$$\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(5\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+3\,B\,\mathrm{Sin}\left[\frac{dx}{2}\right]-11\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8\,d}+$$

$$\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8\,d}+$$

$$\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(-9\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]+B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+7\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{16\,d}+\frac{(5A+3B-11C)\,\mathrm{Tan}\left[\frac{c}{2}\right]}{8\,d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+a\,\mathrm{Sec}[c+dx])^{5/2}},\ x,\ 4,\ 0\right\}$$

$$\frac{(19A+5B+3C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]\sqrt{\mathrm{Sec}[c+dx]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{4\,d\,(a+a\,\mathrm{Sec}[c+dx])^{5/2}}-\frac{(9A-B-7C)\,\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}}$$

$$\frac{1}{64\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$
$$(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{(9\,A-B-7\,C+(13\,A-5\,B-3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}-\right.$$
$$\sqrt{2}\,(19\,A+5\,B+3\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,5,\,0\right\}$$
$$-\frac{(75\,A-19\,B-5\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$
$$\frac{(13\,A-5\,B-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(49\,A-9\,B+C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{64\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$
$$(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}(65\,A-9\,B+C+(85\,A-13\,B+5\,C)\,\mathrm{Cos}[c+d\,x]+16\,A\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\right.$$
$$\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\sqrt{2}\,(75\,A-19\,B-5\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,6,\,0\right\}$$
$$\frac{(163\,A-75\,B+19\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$
$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-\frac{(17\,A-9\,B+C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$
$$\frac{(95\,A-39\,B+15\,C)\,\mathrm{Sin}[c+d\,x]}{48\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(299\,A-147\,B+27\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{48\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{192\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$
$$(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}(379\,A-195\,B+27\,C+(479\,A-255\,B+39\,C)\,\mathrm{Cos}[c+d\,x]+16\,(5\,A-3\,B)\,\mathrm{Cos}[2\,(c+d\,x)]-8\,A\,\mathrm{Cos}[3\,(c+d\,x)])\right.$$
$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)-3\,\sqrt{2}\,(163\,A-75\,B+19\,C)\,\mathrm{Cos}[c+d\,x]^2$$
$$\mathrm{Cot}[c+d\,x]\,\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,7,\,0\right\}$$
$$-\frac{(283\,A-163\,B+75\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{16\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$
$$\frac{(21\,A-13\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(157\,A-85\,B+45\,C)\,\mathrm{Sin}[c+d\,x]}{80\,a^2\,d\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$
$$\frac{(787\,A-475\,B+195\,C)\,\mathrm{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{(2671\,A-1495\,B+735\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{240\,a^2\,d\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$
$$\frac{1}{960\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$
$$(1+\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{1}{\mathrm{Sec}[c+d\,x]^{3/2}}(3491\,A-1895\,B+975\,C+5\,(887\,A-479\,B+255\,C)\,\mathrm{Cos}[c+d\,x]+16\,(52\,A-25\,B+15\,C)\,\mathrm{Cos}[2\,(c+d\,x)]-\right.$$
$$\left.40\,A\,\mathrm{Cos}[3\,(c+d\,x)]+40\,B\,\mathrm{Cos}[3\,(c+d\,x)]+12\,A\,\mathrm{Cos}[4\,(c+d\,x)]\right)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^5\sqrt{1+\mathrm{Sec}[c+d\,x]}$$
$$\left(-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+15\,\sqrt{2}\,(283\,A-163\,B+75\,C)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Cot}[c+d\,x]$$
$$\left(\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2-2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]-\right.$$
$$\left.\left.\mathrm{Log}\left[8\left(-1+2\,\mathrm{Sec}[c+d\,x]+3\,\mathrm{Sec}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)\right]\right)\sqrt{\mathrm{Tan}[c+d\,x]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{7/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$
$$\frac{6\,B\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,(5\,A+7\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$
$$\frac{2\,(5\,A+7\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{2\,B\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{7\,d}$$

$$\left(\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{12\,B\,\text{Cot}[c]}{5\,d}+\frac{(23\,A+28\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}+\frac{2\,B\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+\frac{(23\,A+28\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}+\frac{2\,B\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\right)\right)\Big/$$

$$(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])-\left(20\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}6\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),x,5,0\right\}$$

$$\frac{2\,(3\,A+5\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{5\,d}+\frac{2\,B\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{3\,d}+\frac{2\,B\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\left(\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(3\,A+5\,C)\,\text{Cot}[c]}{5\,d}+\frac{4\,B\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,B\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)\right)\Big/$$

$$(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])-\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}6\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}2\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,4,\,0\right\}$$

$$\frac{2\,B\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,(A+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\,A\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,B\,\text{Cot}[c]}{d}+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}\right)}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,4,\,0\right\}$$

$$\frac{2\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,B\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{d\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A-2\,C+A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{d}+\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}\right)}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,B\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,(3\,A+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,B\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{8\,B\,\text{Csc}[2\,c]}{d}+\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(C\,\text{Sin}[c]+3\,B\,\text{Sin}[d\,x])}{3\,d}\right)}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,(5\,A+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,B\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{2\,C\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,B\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,(5\,A+3\,C)\,\text{Sin}[c+d\,x]}{5\,d\sqrt{\text{Cos}[c+d\,x]}}$$

$$\left(\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{8\,(5\,A+3\,C)\,\text{Csc}[2\,c]}{5\,d}+\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,C\,\text{Sin}[c]+5\,B\,\text{Sin}[d\,x])}{15\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(5\,B\,\text{Sin}[c]+15\,A\,\text{Sin}[d\,x]+9\,C\,\text{Sin}[d\,x])}{15\,d}\right)\right)\Big/$$

$$(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])-\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}+$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,2\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,6\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}},\,x,\,7,\,0\right\}$$

$$-\frac{6\,B\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,(7\,A+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{2\,C\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{7/2}}+\frac{2\,B\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,(7\,A+5\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{6\,B\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{24B\,\mathrm{Csc}[2c]}{5d}+\frac{4C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{7d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(5C\,\mathrm{Sin}[c]+7B\,\mathrm{Sin}[dx])}{35d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(35A\,\mathrm{Sin}[c]+25C\,\mathrm{Sin}[c]+63B\,\mathrm{Sin}[dx])}{105d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(21B\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+25C\,\mathrm{Sin}[dx])}{105d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}4A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-\left(20C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)+\frac{1}{5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}6B\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\left(\sqrt{1-\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+dx]^{9/2}\,(a+a\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),x,7,0\right\}$$

$$\frac{2a\,(7A+9B+9C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{15d}+\frac{2a\,(5A+5B+7C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{21d}+\frac{2a\,(5A+5B+7C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{Sin}[c+dx]}{21d}+\frac{2a\,(7A+9B+9C)\,\mathrm{Cos}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{45d}+\frac{2a\,(2A+9B)\,\mathrm{Cos}[c+dx]^{5/2}\,\mathrm{Sin}[c+dx]}{63d}+\frac{2A\,\mathrm{Cos}[c+dx]^{7/2}\,(a+a\,\mathrm{Sec}[c+dx])\,\mathrm{Sin}[c+dx]}{9d}$$

$$a\left(\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\mathrm{Cos}[c+dx]^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\left(-\frac{4\,(7A+9B+9C)\,\mathrm{Cot}[c]}{15d}+\frac{(23A+23B+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{21d}+\frac{(19A+18B+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{45d}+\right.$$

$$\frac{(A+B)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{7d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{18d}+\frac{(23A+23B+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{21d}+$$

$$\left.\frac{(19A+18B+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{45d}+\frac{(A+B)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{7d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{18d}\right)-$$

$$\left(20A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20B\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{15d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}14A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}6\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}6\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{2\,a\,(3\,A+3\,B+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\,a\,(5\,A+7\,B+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,a\,(5\,A+7\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{2\,a\,(2\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$a\left(\left(3\,i\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left.\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(3\,i\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(i\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])+\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}$$

$$\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,(3\,A+3\,B+5\,C)\,\text{Cot}[c]}{5\,d}+\frac{(23\,A+28\,B+28\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}+\frac{2\,(A+B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\right.$$

$$\left.\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+\frac{(23\,A+28\,B+28\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}+\frac{2\,(A+B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\right)-$$

$$\left(20\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$
$$\frac{2\,a\,(3\,A+5\,B+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,a\,(A+B+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$
$$\frac{2\,a\,(2\,A+5\,B)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$
$$a\left(\left(3\,i\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$
$$\left.\frac{2\,i\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(i\,B\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)+$$

$$\left(i\,C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)+\left(\mathrm{Cos}[c+d\,x]^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{4\,(3\,A+5\,B+5\,C)\,\mathrm{Cot}[c]}{5\,d}+\frac{4\,(A+B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{2\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,d}+\right.$$

$$\left.\left.\frac{4\,(A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{2\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}\right)\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(4\,A\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,B\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\Bigg(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Bigg)-$$

$$4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),x,5,0\right\}$$

$$\frac{2\,a\,(A+B-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]}{d}+\frac{2\,a\,(A+3\,B+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{3\,d}-$$

$$\frac{2\,a\,(A-3\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$a\Bigg(\Bigg(i\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])+$$

$$\Bigg(i\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(i\,C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)+$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A+B-2\,C+A\,\mathrm{Cos}[2\,c]+B\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{d}+\frac{4\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{4\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{d}\right)\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(4\,A\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,B\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\,a\,(A-B-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,a\,(3\,A+3\,B+C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{2\,a\,(3\,B+2\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$a\left(\left(i\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left.\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(i\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(i\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)+$$

$$\left(\text{Cos}[c+d\,x]^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A-2\,B-2\,C+A\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{d}+\right.\right.$$

$$\left.\left.\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(C\,\text{Sin}[c]+3\,B\,\text{Sin}[d\,x]+3\,C\,\text{Sin}[d\,x])}{3\,d}\right)\right)\Big/$$

$$(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])-\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4B\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\left(4C\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{\sqrt{\mathrm{Cos}[c+dx]}},x,6,0\right\}$$

$$-\frac{2a\,(5A+5B+3C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{5d}+\frac{2a\,(3A+B+C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3d}+$$

$$\frac{2a\,(5B+2C)\,\mathrm{Sin}[c+dx]}{15d\,\mathrm{Cos}[c+dx]^{3/2}}+\frac{2a\,(5A+5B+3C)\,\mathrm{Sin}[c+dx]}{5d\sqrt{\mathrm{Cos}[c+dx]}}+\frac{2C\,(a+a\,\mathrm{Sec}[c+dx])\,\mathrm{Sin}[c+dx]}{5d\,\mathrm{Cos}[c+dx]^{3/2}}$$

$$a\left(-\left(i\,A\,\mathrm{Cos}[c+dx]^2\,\mathrm{Csc}[c]\left(-\frac{2i\sqrt{2}\,e^{-i\,dx}\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]}{d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}-\right.\right.\right.$$

$$\left.\frac{2i\sqrt{2}\,e^{i\,dx}\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2i(c+dx)}\right]}{3d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}\right)$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(i\,B\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)-$$

$$\left(3\,i\,C\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\right)+\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(5\,A+5\,B+3\,C)\,\mathrm{Csc}[2\,c]}{5\,d}+\right.$$

$$\frac{4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}[d\,x]}{5\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,C\,\mathrm{Sin}[c]+5\,B\,\mathrm{Sin}[d\,x]+5\,C\,\mathrm{Sin}[d\,x])}{15\,d}+$$

$$\left.\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,B\,\mathrm{Sin}[c]+5\,C\,\mathrm{Sin}[c]+15\,A\,\mathrm{Sin}[d\,x]+15\,B\,\mathrm{Sin}[d\,x]+9\,C\,\mathrm{Sin}[d\,x])}{15\,d}\right)-$$

$$\frac{1}{d\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\,\sqrt{1+\mathrm{Cot}[c]^2}}\,4\,A\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\left(4\,B\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,a\,(5\,A+3\,B+3\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,a\,(7\,A+7\,B+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,a\,(7\,B+2\,C)\,\text{Sin}[c+d\,x]}{35\,d\,\text{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{2\,a\,(7\,A+7\,B+5\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,a\,(5\,A+3\,B+3\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$a\Bigg(-\Bigg(i\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])-$$

$$\Bigg(3\,i\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(3\,i\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}$$

$$\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg(\frac{8\,(5\,A+3\,B+3\,C)\,\text{Csc}[2\,c]}{5\,d}+$$

$$\frac{4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{7\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(5\,C\,\text{Sin}[c]+7\,B\,\text{Sin}[d\,x]+7\,C\,\text{Sin}[d\,x])}{35\,d}+$$

$$\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(21\,B\,\text{Sin}[c]+21\,C\,\text{Sin}[c]+35\,A\,\text{Sin}[d\,x]+35\,B\,\text{Sin}[d\,x]+25\,C\,\text{Sin}[d\,x])}{105\,d}+$$

$$\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(35\,A\,\text{Sin}[c]+35\,B\,\text{Sin}[c]+25\,C\,\text{Sin}[c]+105\,A\,\text{Sin}[d\,x]+63\,B\,\text{Sin}[d\,x]+63\,C\,\text{Sin}[d\,x])}{105\,d}\Bigg)-$$

$$\Bigg(4\,A\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,B\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(20\,C\,\text{Cos}[c+d\,x]^2\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$
$$\frac{4\,a^2\,(7\,A+8\,B+9\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+$$
$$\frac{4\,a^2\,(50\,A+55\,B+66\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+\frac{4\,a^2\,(50\,A+55\,B+66\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+$$
$$\frac{4\,a^2\,(7\,A+8\,B+9\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+\frac{2\,a^2\,(89\,A+121\,B+99\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{693\,d}+$$
$$\frac{2\,a\,(4\,A+11\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d}$$
$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{2\,(7\,A+8\,B+9\,C)\,\text{Cot}[c]}{15\,d}+\frac{(941\,A+1012\,B+1122\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{1848\,d}+\right.$$
$$\frac{(38\,A+37\,B+36\,C)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{180\,d}+\frac{(101\,A+88\,B+44\,C)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{1232\,d}+\frac{(2\,A+B)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{72\,d}+$$
$$\frac{A\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{176\,d}+\frac{(941\,A+1012\,B+1122\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{1848\,d}+\frac{(38\,A+37\,B+36\,C)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{180\,d}+$$
$$\left.\frac{(101\,A+88\,B+44\,C)\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{1232\,d}+\frac{(2\,A+B)\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{72\,d}+\frac{A\,\text{Cos}[5\,c]\,\text{Sin}[5\,d\,x]}{176\,d}\right)-$$
$$\left(100\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\right.$$
$$(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(10\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$7\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,8\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,3\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4\,a^2\,(8\,A+9\,B+12\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^2\,(5\,A+6\,B+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{4\,a^2\,(5\,A+6\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+\frac{2\,a^2\,(19\,A+27\,B+21\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{105\,d}+\frac{2\,a\,(4\,A+9\,B)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{2\,(8A+9B+12C)\,\mathrm{Cot}[c]}{15d}+\frac{(46A+51B+56C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{84d}+\frac{(37A+36B+18C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{180d}+\right.$$

$$\frac{(2A+B)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{28d}+\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{72d}+\frac{(46A+51B+56C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{84d}+$$

$$\left.\frac{(37A+36B+18C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{180d}+\frac{(2A+B)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{28d}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{72d}\right)-$$

$$\left(10A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{7d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4B\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$2C\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{15d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$8A\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4(a+a\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,3\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,4\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{4\,a^2\,(3\,A+4\,B+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{4\,a^2\,(6\,A+7\,B+14\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,a^2\,(33\,A+49\,B+35\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,a\,(4\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{10\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$3\,i\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)+\frac{1}{5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$2\,i\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)+\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$i\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)+\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}$$

$$\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,(3\,A+4\,B+5\,C)\,\mathrm{Cot}[c]}{5\,d}+\frac{(51\,A+56\,B+28\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{84\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{10\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{28\,d}+\frac{(51\,A+56\,B+28\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{84\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{10\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{28\,d}\right)-$$

$$\frac{1}{7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,4\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$4\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{4\,a^2\,(4\,A+5\,B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,(A+2\,B+3\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-\frac{2\,a^2\,(7\,A+5\,B-15\,C)\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{2\,a\,(4\,A+5\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{(8\,A+10\,B-5\,C+8\,A\,\mathrm{Cos}[2\,c]+10\,B\,\mathrm{Cos}[2\,c]+5\,C\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{5\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\right.$$

$$\left.\frac{A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{10\,d}+\frac{(2\,A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{d}+\frac{A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{10\,d}\right)-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$4\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$2\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,-$$

$$4\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{4\,a^2\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{4\,a^2\,(2\,A+3\,B+2\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-\frac{2\,a^2\,(A-3\,B-5\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a\,(A-C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\left(i\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-\frac{1}{2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,i\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)+\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}$$

$$\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{(2\,A-B-4\,C+2\,A\,\mathrm{Cos}[2\,c]+B\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{d}+\frac{A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\right.$$

$$\left.\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(C\,\mathrm{Sin}[c]+3\,B\,\mathrm{Sin}[d\,x]+6\,C\,\mathrm{Sin}[d\,x])}{3\,d}\right)-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,4\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$-\frac{4\,a^2\,(5\,B+4\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,(3\,A+2\,B+C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$

$$\frac{2\,a^2\,(15\,A+25\,B+17\,C)\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,a\,(5\,B+4\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$-\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$i\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)-\frac{1}{5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$2\,i\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)+$$

$$\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{(-5\,A-20\,B-16\,C+5\,A\,\mathrm{Cos}[2\,c])\,\mathrm{Csc}[2\,c]}{5\,d}+\right.$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}[d\,x]}{5\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,C\,\mathrm{Sin}[c]+5\,B\,\mathrm{Sin}[d\,x]+10\,C\,\mathrm{Sin}[d\,x])}{15\,d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,B\,\mathrm{Sin}[c]+10\,C\,\mathrm{Sin}[c]+15\,A\,\mathrm{Sin}[d\,x]+30\,B\,\mathrm{Sin}[d\,x]+24\,C\,\mathrm{Sin}[d\,x])}{15\,d}\right)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$2\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$

$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{4\,a^2\,(5\,A+4\,B+3\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^2\,(14\,A+7\,B+6\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{2\,a^2\,(35\,A+49\,B+33\,C)\,\mathrm{Sin}[c+d\,x]}{105\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(5\,A+4\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{2\,a\,(7\,B+4\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{2\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$

$$-\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$i\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)-\frac{1}{5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$2\,i\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)-\frac{1}{10\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$3\,i\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)+\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}$$

$$\text{Cos}[c+d\,x]^{9/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\Bigg(\frac{4\,(5\,A+4\,B+3\,C)\,\text{Csc}[2\,c]}{5\,d}+$$

$$\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{7\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(5\,C\,\text{Sin}[c]+7\,B\,\text{Sin}[d\,x]+14\,C\,\text{Sin}[d\,x])}{35\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(21\,B\,\text{Sin}[c]+42\,C\,\text{Sin}[c]+35\,A\,\text{Sin}[d\,x]+70\,B\,\text{Sin}[d\,x]+60\,C\,\text{Sin}[d\,x])}{105\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(35\,A\,\text{Sin}[c]+70\,B\,\text{Sin}[c]+60\,C\,\text{Sin}[c]+210\,A\,\text{Sin}[d\,x]+168\,B\,\text{Sin}[d\,x]+126\,C\,\text{Sin}[d\,x])}{105\,d}\Bigg)-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,4\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,(a+a\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$2\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$

$$(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$
$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]$$
$$\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},x,8,0\right\}$$
$$-\frac{4\,a^2\,(12\,A+9\,B+8\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{15\,d}+\frac{4\,a^2\,(7\,A+6\,B+5\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{21\,d}+$$
$$\frac{2\,a^2\,(21\,A+27\,B+19\,C)\,\mathrm{Sin}[c+d\,x]}{105\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^2\,(7\,A+6\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{21\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^2\,(12\,A+9\,B+8\,C)\,\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+$$
$$\frac{2\,a\,(9\,B+4\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{63\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{2\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{9\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$
$$\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}$$
$$\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{4\,(12\,A+9\,B+8\,C)\,\mathrm{Csc}[2\,c]}{15\,d}+\right.$$
$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5\,\mathrm{Sin}[d\,x]}{9\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,(7\,C\,\mathrm{Sin}[c]+9\,B\,\mathrm{Sin}[d\,x]+18\,C\,\mathrm{Sin}[d\,x])}{63\,d}+$$
$$\frac{2\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(35\,A\,\mathrm{Sin}[c]+30\,B\,\mathrm{Sin}[c]+25\,C\,\mathrm{Sin}[c]+84\,A\,\mathrm{Sin}[d\,x]+63\,B\,\mathrm{Sin}[d\,x]+56\,C\,\mathrm{Sin}[d\,x])}{105\,d}+$$
$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(45\,B\,\mathrm{Sin}[c]+90\,C\,\mathrm{Sin}[c]+63\,A\,\mathrm{Sin}[d\,x]+126\,B\,\mathrm{Sin}[d\,x]+112\,C\,\mathrm{Sin}[d\,x])}{315\,d}+$$
$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(63\,A\,\mathrm{Sin}[c]+126\,B\,\mathrm{Sin}[c]+112\,C\,\mathrm{Sin}[c]+210\,A\,\mathrm{Sin}[d\,x]+180\,B\,\mathrm{Sin}[d\,x]+150\,C\,\mathrm{Sin}[d\,x])}{315\,d}\right)-$$
$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}\,2\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]$$
$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$
$$\frac{1}{7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$
$$\left(10\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\right.$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)+\frac{1}{5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$
$$4\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$
$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,3\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,8\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4$$
$$(a+a\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{13/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$\frac{4\,a^3\,(175\,A+195\,B+221\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{195\,d}+$$
$$\frac{4\,a^3\,(95\,A+105\,B+121\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+\frac{4\,a^3\,(95\,A+105\,B+121\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+$$
$$\frac{4\,a^3\,(175\,A+195\,B+221\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{585\,d}+\frac{20\,a^3\,(236\,A+273\,B+286\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{9009\,d}+$$
$$\frac{2\,a^2\,(145\,A+195\,B+143\,C)\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{1287\,d}+$$
$$\frac{2\,a\,(6\,A+13\,B)\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{143\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{13\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\Bigg(-\frac{(175\,A+195\,B+221\,C)\,\text{Cot}[c]}{195\,d}+\frac{(1811\,A+1953\,B+2134\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3696\,d}+\frac{(7825\,A+7800\,B+7592\,C)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{37\,440\,d}+$$
$$\frac{(215\,A+189\,B+132\,C)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{2464\,d}+\frac{(59\,A+39\,B+13\,C)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{1872\,d}+$$

$$\frac{(3A+B)\,\mathrm{Cos}[5dx]\,\mathrm{Sin}[5c]}{352d}+\frac{A\,\mathrm{Cos}[6dx]\,\mathrm{Sin}[6c]}{832d}+\frac{(1811A+1953B+2134C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{3696d}+$$

$$\frac{(7825A+7800B+7592C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{37440d}+\frac{(215A+189B+132C)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{2464d}+$$

$$\frac{(59A+39B+13C)\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{1872d}+\frac{(3A+B)\,\mathrm{Cos}[5c]\,\mathrm{Sin}[5dx]}{352d}+\frac{A\,\mathrm{Cos}[6c]\,\mathrm{Sin}[6dx]}{832d}\Bigg)-$$

$$\Bigg(95A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\Big]\,\mathrm{Sec}\Big[\frac{c}{2}+\frac{dx}{2}\Big]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\,\big(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\big)\,\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\Big(231d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\sqrt{1+\mathrm{Cot}[c]^2}\Big)-$$

$$\Bigg(5B\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\Big]\,\mathrm{Sec}\Big[\frac{c}{2}+\frac{dx}{2}\Big]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\,\big(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\big)\,\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\Big(11d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\sqrt{1+\mathrm{Cot}[c]^2}\Big)-$$

$$\Bigg(11C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\Big]\,\mathrm{Sec}\Big[\frac{c}{2}+\frac{dx}{2}\Big]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\,\big(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\big)\,\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\Big(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\sqrt{1+\mathrm{Cot}[c]^2}\Big)-$$

$$\frac{1}{78d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$35A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\Big[\frac{c}{2}+\frac{dx}{2}\Big]^6\,(a+a\,\mathrm{Sec}[c+dx])^3\,\big(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\big)$$

$$\Bigg(\Big(\mathrm{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\Big]\,\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\Big)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,17\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{4\,a^3\,(15\,A+17\,B+21\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{4\,a^3\,(105\,A+121\,B+143\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+$$

$$\frac{4\,a^3\,(105\,A+121\,B+143\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+\frac{4\,a^3\,(210\,A+253\,B+264\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{1155\,d}+$$

$$\frac{2\,a^2\,(105\,A+143\,B+99\,C)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{693\,d}+$$

$$\frac{2\,a\,(6\,A+11\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(15A+17B+21C)\,\mathrm{Cot}[c]}{15d}+\frac{(1953A+2134B+2354C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{3696d}+\right.$$

$$\frac{(75A+73B+54C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{360d}+\frac{(189A+132B+44C)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{2464d}+\frac{(3A+B)\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{144d}+$$

$$\frac{A\,\mathrm{Cos}[5dx]\,\mathrm{Sin}[5c]}{352d}+\frac{(1953A+2134B+2354C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{3696d}+\frac{(75A+73B+54C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{360d}+$$

$$\left.\frac{(189A+132B+44C)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{2464d}+\frac{(3A+B)\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{144d}+\frac{A\,\mathrm{Cos}[5c]\,\mathrm{Sin}[5dx]}{352d}\right)-$$

$$\left(5A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(11d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(11B\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(13C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{2d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}17\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}7\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4 a^3 (17 A+21 B+27 C) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{15 d}+\frac{4 a^3 (11 A+13 B+21 C) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{21 d}+$$

$$\frac{4 a^3 (32 A+41 B+42 C) \sqrt{\text{Cos}[c+d x]} \text{Sin}[c+d x]}{105 d}+\frac{2 a^2 (73 A+99 B+63 C) \text{Cos}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d}+$$

$$\frac{2 a (2 A+3 B) \text{Cos}[c+d x]^{5/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d}+\frac{2 A \text{Cos}[c+d x]^{7/2} (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d}$$

$$\frac{1}{A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]} \text{Cos}[c+d x]^{11/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(-\frac{(17 A+21 B+27 C) \text{Cot}[c]}{15 d}+\frac{(97 A+107 B+84 C) \text{Cos}[d x] \text{Sin}[c]}{168 d}+\frac{(73 A+54 B+18 C) \text{Cos}[2 d x] \text{Sin}[2 c]}{360 d}+\right.$$

$$\frac{(3 A+B) \text{Cos}[3 d x] \text{Sin}[3 c]}{56 d}+\frac{A \text{Cos}[4 d x] \text{Sin}[4 c]}{144 d}+\frac{(97 A+107 B+84 C) \text{Cos}[c] \text{Sin}[d x]}{168 d}+$$

$$\left.\frac{(73 A+54 B+18 C) \text{Cos}[2 c] \text{Sin}[2 d x]}{360 d}+\frac{(3 A+B) \text{Cos}[3 c] \text{Sin}[3 d x]}{56 d}+\frac{A \text{Cos}[4 c] \text{Sin}[4 d x]}{144 d}\right)-$$

$$\left(11 A \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6\right.$$

$$(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(13 B \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6\right.$$

$$(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\frac{1}{d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}}$$

$$C \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6$$

$$(a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$17\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,7\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,9\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(7\,A+9\,B+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^3\,(13\,A+21\,B+35\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}-\frac{4\,a^3\,(41\,A+42\,B-35\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(7\,A+9\,B+5\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,(6\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{(14\,A+18\,B+5\,C+14\,A\,\text{Cos}[2\,c]+18\,B\,\text{Cos}[2\,c]+15\,C\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{10\,d}+\frac{(107\,A+84\,B+28\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{168\,d}+\frac{(3\,A+B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{20\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{56\,d}+\frac{(107\,A+84\,B+28\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{168\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{2\,d}+\frac{(3\,A+B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{20\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{56\,d}\right)-$$

$$\left(13\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$5\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{10\,d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$7\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{10\,d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,9\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(9\,A+5\,B-5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^3\,(3\,A+5\,B+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-$$

$$\frac{4\,a^3\,(6\,A-5\,B-20\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(9\,A+5\,B-5\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a\,(6\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{(18\,A+5\,B-25\,C+18\,A\,\text{Cos}[2\,c]+15\,B\,\text{Cos}[2\,c]+5\,C\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{10\,d}+\right.$$

$$\frac{(3\,A+B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{6\,d}+\frac{A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{20\,d}+\frac{(3\,A+B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{6\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{6\,d}+$$

$$\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(C\,\text{Sin}[c]+3\,B\,\text{Sin}[d\,x]+9\,C\,\text{Sin}[d\,x])}{6\,d}+\frac{A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{20\,d}\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]$$

$$\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$5\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6$$

$$(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}$$

$$5\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6$$

$$(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;-$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$9\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Bigg(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Bigg)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\Big[\frac{c}{2}+\frac{d\,x}{2}\Big]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Bigg(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Bigg)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{4\,a^3\,(5\,A-5\,B-9\,C)\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]}{5\,d}+\frac{4\,a^3\,(5\,A+5\,B+3\,C)\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]}{3\,d}+$$

$$\frac{4\,a^3\,(5\,A+20\,B+21\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(5\,A-5\,B-9\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{2\,a\,(5\,A-3\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(5A-25B-36C+15A\,\mathrm{Cos}[2c]+5B\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{10d}+\frac{A\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{6d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{6d}+\right.$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,\mathrm{Sin}[dx]}{10d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(3C\,\mathrm{Sin}[c]+5B\,\mathrm{Sin}[dx]+15C\,\mathrm{Sin}[dx])}{30d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(5B\,\mathrm{Sin}[c]+15C\,\mathrm{Sin}[c]+15A\,\mathrm{Sin}[dx]+45B\,\mathrm{Sin}[dx]+54C\,\mathrm{Sin}[dx])}{30d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,5A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$5B\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{2d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)+$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)+$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,9\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$-\frac{4\,a^3\,(5\,A+9\,B+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{4\,a^3\,(35\,A+21\,B+13\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{4\,a^3\,(140\,A+147\,B+106\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(5\,A+9\,B+7\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a\,(7\,B+6\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(-25A-36B-28C+5A\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{10d}+\right.$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{14d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(5C\,\mathrm{Sin}[c]+7B\,\mathrm{Sin}[dx]+21C\,\mathrm{Sin}[dx])}{70d}+$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(21B\,\mathrm{Sin}[c]+63C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+105B\,\mathrm{Sin}[dx]+130C\,\mathrm{Sin}[dx])}{210d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(35A\,\mathrm{Sin}[c]+105B\,\mathrm{Sin}[c]+130C\,\mathrm{Sin}[c]+315A\,\mathrm{Sin}[dx]+378B\,\mathrm{Sin}[dx]+294C\,\mathrm{Sin}[dx])}{210d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,5A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$B\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\left(13C\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)+\frac{1}{2d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$A\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^6(a+a\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}9\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}7\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,8,\,0\right\}$$

$$-\frac{4 a^3 (27 A+21 B+17 C) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{15 d}+\frac{4 a^3 (21 A+13 B+11 C) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{21 d}+\frac{4 a^3 (42 A+41 B+32 C) \text{Sin}[c+d x]}{105 d \text{Cos}[c+d x]^{3/2}}+\frac{4 a^3 (27 A+21 B+17 C) \text{Sin}[c+d x]}{15 d \sqrt{\text{Cos}[c+d x]}}+\frac{2 a^2 (63 A+99 B+73 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d \text{Cos}[c+d x]^{3/2}}+\frac{2 a (3 B+2 C) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d \text{Cos}[c+d x]^{3/2}}+\frac{2 C (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d \text{Cos}[c+d x]^{3/2}}$$

$$\frac{1}{A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]} \text{Cos}[c+d x]^{11/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(\frac{2 (27 A+21 B+17 C) \text{Csc}[2 c]}{15 d}+\frac{C \text{Sec}[c] \text{Sec}[c+d x]^5 \text{Sin}[d x]}{18 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x]^4 (7 C \text{Sin}[c]+9 B \text{Sin}[d x]+27 C \text{Sin}[d x])}{126 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x]^3 (45 B \text{Sin}[c]+135 C \text{Sin}[c]+63 A \text{Sin}[d x]+189 B \text{Sin}[d x]+238 C \text{Sin}[d x])}{630 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x] (105 A \text{Sin}[c]+130 B \text{Sin}[c]+110 C \text{Sin}[c]+378 A \text{Sin}[d x]+294 B \text{Sin}[d x]+238 C \text{Sin}[d x])}{210 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x]^2 (63 A \text{Sin}[c]+189 B \text{Sin}[c]+238 C \text{Sin}[c]+315 A \text{Sin}[d x]+390 B \text{Sin}[d x]+330 C \text{Sin}[d x])}{630 d}\right)-$$

$$\frac{1}{d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}} A \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\left(13 B \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 (a+a \text{Sec}[c+d x])^3 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right) \Big/$$

$$\left(21 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(11 C \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$9\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,7\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)+$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,17\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},x,9,0\right\}$$

$$-\frac{4\,a^3\,(21\,A+17\,B+15\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),2\right]}{15\,d}+\frac{4\,a^3\,(143\,A+121\,B+105\,C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]}{231\,d}+\frac{4\,a^3\,(264\,A+253\,B+210\,C)\,\text{Sin}[c+d\,x]}{1155\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{4\,a^3\,(143\,A+121\,B+105\,C)\,\text{Sin}[c+d\,x]}{231\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{4\,a^3\,(21\,A+17\,B+15\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(99\,A+143\,B+105\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{693\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,a\,(11\,B+6\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{99\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{11/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{2\,(21\,A+17\,B+15\,C)\,\text{Csc}[2\,c]}{15\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^6\,\text{Sin}[d\,x]}{22\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^5\,(9\,C\,\text{Sin}[c]+11\,B\,\text{Sin}[d\,x]+33\,C\,\text{Sin}[d\,x])}{198\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,(77\,B\,\text{Sin}[c]+231\,C\,\text{Sin}[c]+99\,A\,\text{Sin}[d\,x]+297\,B\,\text{Sin}[d\,x]+378\,C\,\text{Sin}[d\,x])}{1386\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(715\,A\,\text{Sin}[c]+605\,B\,\text{Sin}[c]+525\,C\,\text{Sin}[c]+1617\,A\,\text{Sin}[d\,x]+1309\,B\,\text{Sin}[d\,x]+1155\,C\,\text{Sin}[d\,x])}{1155\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,(495\,A\,\text{Sin}[c]+1485\,B\,\text{Sin}[c]+1890\,C\,\text{Sin}[c]+2079\,A\,\text{Sin}[d\,x]+2618\,B\,\text{Sin}[d\,x]+2310\,C\,\text{Sin}[d\,x])}{6930\,d}+\frac{\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(2079\,A\,\text{Sin}[c]+2618\,B\,\text{Sin}[c]+2310\,C\,\text{Sin}[c]+4290\,A\,\text{Sin}[d\,x]+3630\,B\,\text{Sin}[d\,x]+3150\,C\,\text{Sin}[d\,x])}{6930\,d}\right)-$$

$$\left(13\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(11\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(5\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(11\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$7\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6(a+a\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,17\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6$$
$$(a+a\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)+$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,(a+a\,\text{Sec}[c+d\,x])^3$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{15/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$\frac{8 a^4 (168 A+185 B+208 C) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{195 d}+$$

$$\frac{8 a^4 (91 A+100 B+113 C) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{231 d}+\frac{8 a^4 (91 A+100 B+113 C) \sqrt{\text{Cos}[c+d x]} \text{Sin}[c+d x]}{231 d}+$$

$$\frac{8 a^4 (168 A+185 B+208 C) \text{Cos}[c+d x]^{3/2} \text{Sin}[c+d x]}{585 d}+\frac{4 a^4 (2289 A+2545 B+2795 C) \text{Cos}[c+d x]^{5/2} \text{Sin}[c+d x]}{9009 d}+$$

$$\frac{4 a^3 (147 A+170 B+169 C) \text{Cos}[c+d x]^{7/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{1287 d}+$$

$$\frac{2 a^2 (217 A+285 B+195 C) \text{Cos}[c+d x]^{9/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{2145 d}+$$

$$\frac{2 a (8 A+15 B) \text{Cos}[c+d x]^{11/2} (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{195 d}+\frac{2 A \text{Cos}[c+d x]^{13/2} (a+a \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{15 d}$$

$$\frac{1}{A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]}$$

$$\text{Cos}[c+d x]^{13/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(-\frac{(168 A+185 B+208 C) \text{Cot}[c]}{195 d}+\right.$$

$$\frac{(28021 A+30112 B+32696 C) \text{Cos}[d x] \text{Sin}[c]}{59136 d}+\frac{(15492 A+15625 B+15392 C) \text{Cos}[2 d x] \text{Sin}[2 c]}{74880 d}+$$

$$\frac{(8939 A+8080 B+6420 C) \text{Cos}[3 d x] \text{Sin}[3 c]}{98560 d}+\frac{(66 A+49 B+26 C) \text{Cos}[4 d x] \text{Sin}[4 c]}{1872 d}+$$

$$\frac{(467 A+240 B+60 C) \text{Cos}[5 d x] \text{Sin}[5 c]}{42240 d}+\frac{(4 A+B) \text{Cos}[6 d x] \text{Sin}[6 c]}{1664 d}+\frac{A \text{Cos}[7 d x] \text{Sin}[7 c]}{3840 d}+$$

$$\frac{(28021 A+30112 B+32696 C) \text{Cos}[c] \text{Sin}[d x]}{59136 d}+\frac{(15492 A+15625 B+15392 C) \text{Cos}[2 c] \text{Sin}[2 d x]}{74880 d}+$$

$$\frac{(8939 A+8080 B+6420 C) \text{Cos}[3 c] \text{Sin}[3 d x]}{98560 d}+\frac{(66 A+49 B+26 C) \text{Cos}[4 c] \text{Sin}[4 d x]}{1872 d}+$$

$$\left.\frac{(467 A+240 B+60 C) \text{Cos}[5 c] \text{Sin}[5 d x]}{42240 d}+\frac{(4 A+B) \text{Cos}[6 c] \text{Sin}[6 d x]}{1664 d}+\frac{A \text{Cos}[7 c] \text{Sin}[7 d x]}{3840 d}\right)-$$

$$\left(13 A \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8\right.$$

$$(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right) \Big/$$

$$\left(33 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(100 B \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\Bigg(113\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{65\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$28\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{78\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,37\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,8\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$
$$(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{13/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$\frac{8\,a^4\,(185\,A+208\,B+247\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{195\,d}+\frac{8\,a^4\,(100\,A+113\,B+132\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+$$
$$\frac{8\,a^4\,(100\,A+113\,B+132\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+\frac{4\,a^4\,(5255\,A+6019\,B+6721\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,015\,d}+$$
$$\frac{4\,a^3\,(1355\,A+1612\,B+1573\,C)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9009\,d}+$$
$$\frac{2\,a^2\,(13\,A+17\,B+11\,C)\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{99\,d}+$$
$$\frac{2\,a\,(8\,A+13\,B)\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{143\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{11/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{13\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}$$

$$\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(185A+208B+247C)\,\mathrm{Cot}[c]}{195d}+\right.$$

$$\frac{(3764A+4087B+4488C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{7392d}+\frac{(15625A+15392B+13208C)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{74880d}+$$

$$\frac{(404A+321B+176C)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{4928d}+\frac{(98A+52B+13C)\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{3744d}+$$

$$\frac{(4A+B)\,\mathrm{Cos}[5dx]\,\mathrm{Sin}[5c]}{704d}+\frac{A\,\mathrm{Cos}[6dx]\,\mathrm{Sin}[6c]}{1664d}+\frac{(3764A+4087B+4488C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{7392d}+$$

$$\frac{(15625A+15392B+13208C)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{74880d}+\frac{(404A+321B+176C)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{4928d}+$$

$$\left.\frac{(98A+52B+13C)\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{3744d}+\frac{(4A+B)\,\mathrm{Cos}[5c]\,\mathrm{Sin}[5dx]}{704d}+\frac{A\,\mathrm{Cos}[6c]\,\mathrm{Sin}[6dx]}{1664d}\right)-$$

$$\left(100A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(231d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(113B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(231d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{7d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4C\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{78d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$37\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,8\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)-$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,19\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{11/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{8 a^4 (16 A+19 B+24 C) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{15 d}+$$

$$\frac{8 a^4 (113 A+132 B+187 C) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{231 d}+\frac{4 a^4 (667 A+803 B+913 C) \sqrt{\text{Cos}[c+d x]} \text{Sin}[c+d x]}{1155 d}+$$

$$\frac{4 a^3 (769 A+946 B+891 C) \text{Cos}[c+d x]^{3/2} (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{3465 d}+$$

$$\frac{2 a^2 (43 A+55 B+33 C) \text{Cos}[c+d x]^{5/2} (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{231 d}+$$

$$\frac{2 a (8 A+11 B) \text{Cos}[c+d x]^{7/2} (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{99 d}+\frac{2 A \text{Cos}[c+d x]^{9/2} (a+a \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{11 d}$$

$$\frac{1}{A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]} \text{Cos}[c+d x]^{13/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \text{Sec}[c+d x])^4$$

$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(-\frac{(16 A+19 B+24 C) \text{Cot}[c]}{15 d}+\frac{(4087 A+4488 B+4202 C) \text{Cos}[d x] \text{Sin}[c]}{7392 d}+\right.$$

$$\frac{(148 A+127 B+72 C) \text{Cos}[2 d x] \text{Sin}[2 c]}{720 d}+\frac{(321 A+176 B+44 C) \text{Cos}[3 d x] \text{Sin}[3 c]}{4928 d}+\frac{(4 A+B) \text{Cos}[4 d x] \text{Sin}[4 c]}{288 d}+$$

$$\frac{A \text{Cos}[5 d x] \text{Sin}[5 c]}{704 d}+\frac{(4087 A+4488 B+4202 C) \text{Cos}[c] \text{Sin}[d x]}{7392 d}+\frac{(148 A+127 B+72 C) \text{Cos}[2 c] \text{Sin}[2 d x]}{720 d}+$$

$$\left.\frac{(321 A+176 B+44 C) \text{Cos}[3 c] \text{Sin}[3 d x]}{4928 d}+\frac{(4 A+B) \text{Cos}[4 c] \text{Sin}[4 d x]}{288 d}+\frac{A \text{Cos}[5 c] \text{Sin}[5 d x]}{704 d}\right)-$$

$$\left(113 A \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8\right.$$

$$(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(231 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\frac{1}{7 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}}$$

$$4 B \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8$$

$$(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\left(17 C \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-\frac{1}{15\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$8\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,19\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{8\,a^4\,(19\,A+24\,B+21\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{8\,a^4\,(12\,A+17\,B+28\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}-\frac{4\,a^4\,(73\,A+83\,B+7\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{4\,a^3\,(19\,A+24\,B+21\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{45\,d}+\frac{2\,a^2\,(97\,A+117\,B+63\,C)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{315\,d}+\frac{2\,a\,(8\,A+9\,B)\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{13/2}\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{(76\,A+96\,B+69\,C+76\,A\,\text{Cos}[2\,c]+96\,B\,\text{Cos}[2\,c]+99\,C\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{60\,d}+\frac{(204\,A+191\,B+112\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{336\,d}+\frac{(127\,A+72\,B+18\,C)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{720\,d}+\frac{(4\,A+B)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{112\,d}+\frac{A\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{288\,d}+\frac{(204\,A+191\,B+112\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{336\,d}+\frac{C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{4\,d}+\frac{(127\,A+72\,B+18\,C)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{720\,d}+\frac{(4\,A+B)\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{112\,d}+\frac{A\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{288\,d}\right)-\frac{1}{7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}}\,4\,A\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ -$$

$$\left(17\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\right.$$

$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}}$$

$$4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ -$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$19\,A\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}7\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{8\,a^4\,(8\,A+7\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{8\,a^4\,(17\,A+28\,B+35\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}-\frac{4\,a^4\,(83\,A+7\,B-175\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{4\,a^3\,(8\,A+7\,B)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(73\,A+77\,B+35\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{105\,d}+\frac{2\,a\,(8\,A+7\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(32A+23B-20C+32A\,\mathrm{Cos}[2c]+33B\,\mathrm{Cos}[2c]+20C\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{20d}+\right.$$

$$\frac{(191A+112B+28C)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{336d}+\frac{(4A+B)\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{40d}+\frac{A\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{112d}+$$

$$\frac{(191A+112B+28C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{336d}+\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,\mathrm{Sin}[dx]}{12d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(C\,\mathrm{Sin}[c]+3B\,\mathrm{Sin}[dx]+12C\,\mathrm{Sin}[dx])}{12d}+\frac{(4A+B)\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{40d}+\frac{A\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{112d}\right)-$$

$$\left(17A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$5C\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\frac{1}{5d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}\,4A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)-\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}7\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{56\,a^4\,(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{8\,a^4\,(4\,A+5\,B+4\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-\frac{4\,a^4\,(A-25\,B-41\,C)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{28\,a^3\,(A-C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(11\,A+5\,B-3\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a\,(8\,A+5\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(23A-20B-61C+33A\,\mathrm{Cos}[2c]+20B\,\mathrm{Cos}[2c]+5C\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{20d}+\right.$$

$$\frac{(4A+B)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{12d}+\frac{A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{40d}+\frac{(4A+B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{12d}+$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,\mathrm{Sin}[dx]}{20d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(3C\,\mathrm{Sin}[c]+5B\,\mathrm{Sin}[dx]+20C\,\mathrm{Sin}[dx])}{60d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(5B\,\mathrm{Sin}[c]+20C\,\mathrm{Sin}[c]+15A\,\mathrm{Sin}[dx]+60B\,\mathrm{Sin}[dx]+99C\,\mathrm{Sin}[dx])}{60d}+\frac{A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{40d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,4A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$5B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4C\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{10d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$7A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{10\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,7\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$
$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{8\,a^4\,(7\,B+8\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$
$$\frac{8\,a^4\,(35\,A+28\,B+17\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{4\,a^4\,(175\,A+287\,B+253\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$
$$\frac{4\,a^3\,(7\,B+8\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,(35\,A-21\,B-39\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$
$$\frac{2\,a\,(7\,A-3\,C)\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{(-20A-61B-64C+20A\,\mathrm{Cos}[2c]+5B\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{20d}+\frac{A\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{12d}+\frac{A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{12d}+\right.$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{28d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(5C\,\mathrm{Sin}[c]+7B\,\mathrm{Sin}[dx]+28C\,\mathrm{Sin}[dx])}{140d}+$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(21B\,\mathrm{Sin}[c]+84C\,\mathrm{Sin}[c]+35A\,\mathrm{Sin}[dx]+140B\,\mathrm{Sin}[dx]+235C\,\mathrm{Sin}[dx])}{420d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(35A\,\mathrm{Sin}[c]+140B\,\mathrm{Sin}[c]+235C\,\mathrm{Sin}[c]+420A\,\mathrm{Sin}[dx]+693B\,\mathrm{Sin}[dx]+672C\,\mathrm{Sin}[dx])}{420d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,5A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\left(17C\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)+\frac{1}{10d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$7B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{8\,a^4\,(21\,A+24\,B+19\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{8\,a^4\,(28\,A+17\,B+12\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{4\,a^4\,(287\,A+253\,B+193\,C)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{4\,a^3\,(21\,A+24\,B+19\,C)\,(a+a\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{45\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,(63\,A+117\,B+97\,C)\,(a+a\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{315\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,a\,(9\,B+8\,C)\,(a+a\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{63\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+a\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{9\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{(-183A-192B-152C+15A\,\mathrm{Cos}[2c])\,\mathrm{Csc}[2c]}{60d}+\right.$$

$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^5\,\mathrm{Sin}[dx]}{36d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,(7C\,\mathrm{Sin}[c]+9B\,\mathrm{Sin}[dx]+36C\,\mathrm{Sin}[dx])}{252d}+$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(45B\,\mathrm{Sin}[c]+180C\,\mathrm{Sin}[c]+63A\,\mathrm{Sin}[dx]+252B\,\mathrm{Sin}[dx]+427C\,\mathrm{Sin}[dx])}{1260d}+$$

$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(140A\,\mathrm{Sin}[c]+235B\,\mathrm{Sin}[c]+240C\,\mathrm{Sin}[c]+693A\,\mathrm{Sin}[dx]+672B\,\mathrm{Sin}[dx]+532C\,\mathrm{Sin}[dx])}{420d}+$$

$$\left.\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(63A\,\mathrm{Sin}[c]+252B\,\mathrm{Sin}[c]+427C\,\mathrm{Sin}[c]+420A\,\mathrm{Sin}[dx]+705B\,\mathrm{Sin}[dx]+720C\,\mathrm{Sin}[dx])}{1260d}\right)-$$

$$\frac{1}{3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}\,4A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;-$$

$$\left(17B\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\right.$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\frac{1}{7d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}}$$

$$4C\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;+$$

$$\frac{1}{10d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}$$

$$7A\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^8(a+a\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,19\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$-\frac{8 a^4 (24 A+19 B+16 C) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{15 d}+\frac{8 a^4 (187 A+132 B+113 C) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{231 d}+$$

$$\frac{4 a^4 (913 A+803 B+667 C) \text{Sin}[c+d x]}{1155 d \text{Cos}[c+d x]^{3/2}}+\frac{8 a^4 (24 A+19 B+16 C) \text{Sin}[c+d x]}{15 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{4 a^3 (891 A+946 B+769 C) (a+a \text{Sec}[c+d x]) \text{Sin}[c+d x]}{3465 d \text{Cos}[c+d x]^{3/2}}+\frac{2 a^2 (33 A+55 B+43 C) (a+a \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{231 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2 a (11 B+8 C) (a+a \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{99 d \text{Cos}[c+d x]^{3/2}}+\frac{2 C (a+a \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{11 d \text{Cos}[c+d x]^{3/2}}$$

$$\frac{1}{A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]}$$

$$\text{Cos}[c+d x]^{13/2} \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8 (a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \left(\frac{2 (24 A+19 B+16 C) \text{Csc}[2 c]}{15 d}+\right.$$

$$\frac{C \text{Sec}[c] \text{Sec}[c+d x]^6 \text{Sin}[d x]}{44 d}+\frac{\text{Sec}[c] \text{Sec}[c+d x]^5 (9 C \text{Sin}[c]+11 B \text{Sin}[d x]+44 C \text{Sin}[d x])}{396 d}+$$

$$\frac{\text{Sec}[c] \text{Sec}[c+d x]^4 (77 B \text{Sin}[c]+308 C \text{Sin}[c]+99 A \text{Sin}[d x]+396 B \text{Sin}[d x]+675 C \text{Sin}[d x])}{2772 d}+$$

$$\frac{\text{Sec}[c] \text{Sec}[c+d x]^3 (495 A \text{Sin}[c]+1980 B \text{Sin}[c]+3375 C \text{Sin}[c]+2772 A \text{Sin}[d x]+4697 B \text{Sin}[d x]+4928 C \text{Sin}[d x])}{13860 d}+$$

$$\frac{\text{Sec}[c] \text{Sec}[c+d x] (2585 A \text{Sin}[c]+2640 B \text{Sin}[c]+2260 C \text{Sin}[c]+7392 A \text{Sin}[d x]+5852 B \text{Sin}[d x]+4928 C \text{Sin}[d x])}{4620 d}+$$

$$\left.\frac{\text{Sec}[c] \text{Sec}[c+d x]^2 (2772 A \text{Sin}[c]+4697 B \text{Sin}[c]+4928 C \text{Sin}[c]+7755 A \text{Sin}[d x]+7920 B \text{Sin}[d x]+6780 C \text{Sin}[d x])}{13860 d}\right)-$$

$$\left(17 A \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8\right.$$

$$(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right) \Big/$$

$$\left(21 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\frac{1}{7 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}}$$

$$4 B \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] \text{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right]^8$$

$$(a+a \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}-$$

$$\left(113\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\right.$$

$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)+$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$4\,A\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,19\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\right)+$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,8\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$
$$(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$
$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$
$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,10,\,0\right\}$$
$$-\frac{8\,a^4\,(247\,A+208\,B+185\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{195\,d}+\frac{8\,a^4\,(132\,A+113\,B+100\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+$$
$$\frac{4\,a^4\,(6721\,A+6019\,B+5255\,C)\,\mathrm{Sin}[c+d\,x]}{15\,015\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{8\,a^4\,(132\,A+113\,B+100\,C)\,\mathrm{Sin}[c+d\,x]}{231\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{8\,a^4\,(247\,A+208\,B+185\,C)\,\mathrm{Sin}[c+d\,x]}{195\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+$$
$$\frac{4\,a^3\,(1573\,A+1612\,B+1355\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{9009\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{2\,a^2\,(11\,A+17\,B+13\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{99\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$
$$\frac{2\,a\,(13\,B+8\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{143\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{2\,C\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{13\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]}$$
$$\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(a+a\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(\frac{2\,(247\,A+208\,B+185\,C)\,\mathrm{Csc}[2\,c]}{195\,d}+\right.$$
$$\frac{C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^7\,\mathrm{Sin}[d\,x]}{52\,d}+\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^6\,(11\,C\,\mathrm{Sin}[c]+13\,B\,\mathrm{Sin}[d\,x]+52\,C\,\mathrm{Sin}[d\,x])}{572\,d}+$$
$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5\,(117\,B\,\mathrm{Sin}[c]+468\,C\,\mathrm{Sin}[c]+143\,A\,\mathrm{Sin}[d\,x]+572\,B\,\mathrm{Sin}[d\,x]+979\,C\,\mathrm{Sin}[d\,x])}{5148\,d}+$$
$$\frac{\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,(1001\,A\,\mathrm{Sin}[c]+4004\,B\,\mathrm{Sin}[c]+6853\,C\,\mathrm{Sin}[c]+5148\,A\,\mathrm{Sin}[d\,x]+8775\,B\,\mathrm{Sin}[d\,x]+9360\,C\,\mathrm{Sin}[d\,x])}{36\,036\,d}+$$

$$\frac{1}{15015\,d}\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(8580\,A\,\mathrm{Sin}[c]+7345\,B\,\mathrm{Sin}[c]+6500\,C\,\mathrm{Sin}[c]+19019\,A\,\mathrm{Sin}[d\,x]+16016\,B\,\mathrm{Sin}[d\,x]+14245\,C\,\mathrm{Sin}[d\,x])+$$

$$\frac{1}{180180\,d}\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(25740\,A\,\mathrm{Sin}[c]+43875\,B\,\mathrm{Sin}[c]+46800\,C\,\mathrm{Sin}[c]+61061\,A\,\mathrm{Sin}[d\,x]+$$

$$64064\,B\,\mathrm{Sin}[d\,x]+56980\,C\,\mathrm{Sin}[d\,x])+\frac{1}{180180\,d}\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$(61061\,A\,\mathrm{Sin}[c]+64064\,B\,\mathrm{Sin}[c]+56980\,C\,\mathrm{Sin}[c]+102960\,A\,\mathrm{Sin}[d\,x]+88140\,B\,\mathrm{Sin}[d\,x]+78000\,C\,\mathrm{Sin}[d\,x])\Big)-$$

$$\frac{1}{7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}}\,4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}-$$

$$\Bigg(113\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\Bigg(100\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(231\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\frac{1}{30\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$19\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8(a+a\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{15\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,8\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)+\frac{1}{78\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}\,37\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{7/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,7,\,0\right\}$$

$$-\frac{3\,(7\,A-7\,B+5\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}+\frac{5\,(9\,A-7\,B+7\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,a\,d}+$$

$$\frac{5\,(9\,A-7\,B+7\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,a\,d}-\frac{(7\,A-7\,B+5\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}+$$

$$\frac{(9\,A-7\,B+7\,C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{7\,a\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(21\,i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+$$

$$\left(21\,i\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))-$$

$$\left(3\,i\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{4\,(5\,A-5\,B+5\,C+16\,A\,\text{Cos}[c]-16\,B\,\text{Cos}[c]+10\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{2\,(51\,A-28\,B+28\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}-\right.$$

$$\frac{4\,(A-B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{2\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+$$

$$\left.\left.\frac{2\,(51\,A-28\,B+28\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}-\frac{4\,(A-B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{2\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\right)\right)\Big/$$

$$((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))-$$

$$\left(60\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)+$$

$$\left(20\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)-$$

$$\left(20\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{a+a\,\mathrm{Sec}[c+dx]},\,x,\,6,\,0\right\}$$

$$\frac{3\,(7A-5B+5C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{5\,a\,d}-\frac{(5A-5B+3C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3\,a\,d}-$$

$$\frac{(5A-5B+3C)\sqrt{\mathrm{Cos}[c+dx]}\,\mathrm{Sin}[c+dx]}{3\,a\,d}+\frac{(7A-5B+5C)\,\mathrm{Cos}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{5\,a\,d}-\frac{(A-B+C)\,\mathrm{Cos}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{d\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\left(21\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \operatorname{Cos}[c+d x] \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])\right) -$$

$$\left(3\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \operatorname{Cos}[c+d x] \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])\right) +$$

$$\left(3\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \operatorname{Cos}[c+d x] \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])\right) +$$

$$\left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \operatorname{Cos}[c+d x]^{3/2} \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{4 (5 A-5 B+5 C+16 A \operatorname{Cos}[c]-10 B \operatorname{Cos}[c]+10 C \operatorname{Cos}[c]) \operatorname{Csc}[c]}{5 d} - \frac{8 (A-B) \operatorname{Cos}[d x] \operatorname{Sin}[c]}{3 d} + \frac{4 A \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{5 d} - \frac{4 \operatorname{Sec}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}+\frac{d x}{2}\right] \left(A \operatorname{Sin}\left[\frac{d x}{2}\right]-B \operatorname{Sin}\left[\frac{d x}{2}\right]+C \operatorname{Sin}\left[\frac{d x}{2}\right]\right)}{d} - \frac{8 (A-B) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{3 d} + \frac{4 A \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{5 d}\right)\right) \Big/$$

$$\left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])\right) +$$

$$\left(20 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^2 \operatorname{Cos}[c+d x] \operatorname{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])\right) -$$

$$\left(20\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+$$
$$\left(4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+a\,\text{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$
$$-\frac{(3\,A-3\,B+C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,d}+\frac{(5\,A-3\,B+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+$$
$$\frac{(5\,A-3\,B+3\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}-\frac{(A-B+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$-\left(3\,i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$
$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$
$$((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+$$
$$\left(3\,i\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$
$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))-\left(i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,dx}\sqrt{1+e^{2\,i\,(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+dx)}\right]}{d\sqrt{e^{-i\,(c+dx)}\left(1+e^{2\,i\,(c+dx)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,dx}\sqrt{1+e^{2\,i\,(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+dx)}\right]}{3\,d\sqrt{e^{-i\,(c+dx)}\left(1+e^{2\,i\,(c+dx)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))+\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4\,(A-B+C+2A\,\mathrm{Cos}[c]-2B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}+\frac{8A\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{3d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{8A\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{3d}\right)\right)\Big/$$

$$((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx]))-\left(20A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(3d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)+\left(4B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)-\left(4C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\mathrm{Cos}[c+dx]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/\left(d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+dx]}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{a+a\,\mathrm{Sec}[c+dx]},x,4,0\right\}$$

$$\frac{(3A-B+C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{a\,d}-\frac{(A-B-C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{a\,d}-\frac{(A-B+C)\,\mathrm{Sin}[c+dx]}{d\sqrt{\mathrm{Cos}[c+dx]}\,(a+a\,\mathrm{Sec}[c+dx])}$$

$$\left(3\,i\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))-$$

$$\left(i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))+$$

$$\left(i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left.\left(-\frac{4\,(A-B+C+2\,A\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))+$$

$$\left(4\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\right)-$$

$$\left(4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Big)\Big/$$
$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\right)-$$
$$\Bigg(4\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Big)\Big/$$
$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])},\,x,\,5,\,0\right\}$$
$$-\frac{(A-B+3\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+\frac{(A+B-C)\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{a\,d}+$$
$$\frac{(A-B+3\,C)\,\mathrm{Sin}[c+d\,x]}{a\,d\sqrt{\mathrm{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$
$$-\Bigg(i\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\left(-\frac{2\,i\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$
$$\left.\frac{2\,i\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/$$
$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))+$$
$$\Bigg(i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Cos}[c+d\,x]\,\mathrm{Csc}[c]\left(-\frac{2\,i\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.$$
$$\left.\frac{2\,i\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/$$
$$((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x]))-$$

$$\left(3\,i\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{4\,(A-B+3\,C)}{d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}-\frac{4\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+B\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-3\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+2\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}\right)\right)\Big/((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x]))-$$

$$\left(4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\left(4\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\left(4\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,6,\,0\right\}$$

$$\frac{(A-3B+3C)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{a\,d}+\frac{(3A-3B+5C)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3\,a\,d}+$$

$$\frac{(3A-3B+5C)\,\text{Sin}[c+dx]}{3\,a\,d\,\text{Cos}[c+dx]^{3/2}}-\frac{(A-3B+3C)\,\text{Sin}[c+dx]}{a\,d\,\sqrt{\text{Cos}[c+dx]}}-\frac{(A-B+C)\,\text{Sin}[c+dx]}{d\,\text{Cos}[c+dx]^{5/2}\,(a+a\,\text{Sec}[c+dx])}$$

$$\left(i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+dx]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx]))-$$

$$\left(3\,i\,B\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+dx]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx]))+$$

$$\left(3\,i\,C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+dx]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx]))+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\text{Cos}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right.$$

$$\left(-\frac{2\,(-2\,B+2\,C+A\,\text{Cos}[c]-B\,\text{Cos}[c]+C\,\text{Cos}[c])\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{d}-\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(A\,\text{Sin}\left[\frac{dx}{2}\right]-B\,\text{Sin}\left[\frac{dx}{2}\right]+C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{d}+\frac{8\,C\,\text{Sec}[c]\,\text{Sec}[c+dx]^2\,\text{Sin}[dx]}{3\,d}+$$

$$\left.\left.\frac{8\,\text{Sec}[c]\,\text{Sec}[c+dx]\,(C\,\text{Sin}[c]+3\,B\,\text{Sin}[dx]-3\,C\,\text{Sin}[dx])}{3\,d}\right)\right)\Big/$$

$$((A+2\,C+2\,B\,\text{Cos}[c+dx]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+dx]))-$$

$$\left(4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)+$$
$$\left(4\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)-$$
$$\left(20\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])},\,x,\,7,\,0\right\}$$
$$-\frac{3\,(5\,A-5\,B+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a\,d}-\frac{(3\,A-5\,B+5\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a\,d}+\frac{(5\,A-5\,B+7\,C)\,\text{Sin}[c+d\,x]}{5\,a\,d\,\text{Cos}[c+d\,x]^{5/2}}-$$
$$\frac{(3\,A-5\,B+5\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{3\,(5\,A-5\,B+7\,C)\,\text{Sin}[c+d\,x]}{5\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(3\,i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\left(3\,i\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\left(21\,i\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{2\,(10\,A-10\,B+16\,C+5\,A\,\text{Cos}[c]-5\,B\,\text{Cos}[c]+5\,C\,\text{Cos}[c])\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{5\,d}+\right.$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{8\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}-$$

$$\frac{8\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(-5\,B\,\text{Sin}[c]+5\,C\,\text{Sin}[c]-15\,A\,\text{Sin}[d\,x]+15\,B\,\text{Sin}[d\,x]-24\,C\,\text{Sin}[d\,x])}{15\,d}+$$

$$\left.\left.\frac{8\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,C\,\text{Sin}[c]+5\,B\,\text{Sin}[d\,x]-5\,C\,\text{Sin}[d\,x])}{15\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\left(4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Cos}[c+d\,x]\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])\right)-$$

$$\Bigg(20\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\ \text{Cos}[c+d\,x]\ \text{Csc}[c]\ \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\ \text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\ \sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])\right)+$$

$$\Bigg(20\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\ \text{Cos}[c+d\,x]\ \text{Csc}[c]\ \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\ \text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\ \sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{7/2}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\ x,\ 8,\ 0\right\}$$

$$-\frac{7\,(11\,A-8\,B+5\,C)\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,a^2\,d}+$$

$$\frac{5\,(30\,A-21\,B+14\,C)\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,a^2\,d}+\frac{5\,(30\,A-21\,B+14\,C)\ \sqrt{\text{Cos}[c+d\,x]}\ \text{Sin}[c+d\,x]}{21\,a^2\,d}-$$

$$\frac{7\,(11\,A-8\,B+5\,C)\ \text{Cos}[c+d\,x]^{3/2}\ \text{Sin}[c+d\,x]}{15\,a^2\,d}+\frac{(30\,A-21\,B+14\,C)\ \text{Cos}[c+d\,x]^{5/2}\ \text{Sin}[c+d\,x]}{7\,a^2\,d}-$$

$$\frac{(A-B+C)\ \text{Cos}[c+d\,x]^{5/2}\ \text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(11\,A-8\,B+5\,C)\ \text{Cos}[c+d\,x]^{5/2}\ \text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(154\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) +$$

$$\left(112\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) -$$

$$\left(14\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) -$$

$$\left(400 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(7 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^2\right) +$$

$$\left(40 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^2\right) -$$

$$\left(80\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$
$$\frac{1}{(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$
$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(\frac{8\,(25\,A-20\,B+15\,C+52\,A\,\text{Cos}[c]-36\,B\,\text{Cos}[c]+20\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}+\frac{4\,(107\,A-56\,B+28\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}-\right.$$
$$\frac{8\,(2\,A-B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(5\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-4\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+3\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\frac{4\,(107\,A-56\,B+28\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}-$$
$$\left.\frac{8\,(2\,A-B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{4\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}-\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$
$$\frac{(56\,A-35\,B+20\,C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{5\,a^2\,d}-\frac{5\,(3\,A-2\,B+C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{3\,a^2\,d}-$$
$$\frac{5\,(3\,A-2\,B+C)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{(56\,A-35\,B+20\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a^2\,d}-$$
$$\frac{(A-B+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(3\,A-2\,B+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(112\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2\, i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2\, i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) -$$

$$\left(14\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2\, i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2\, i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) +$$

$$\left(8\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c] \left(-\frac{2\, i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2\, i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left((A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^2\right) +$$

$$\left(40 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^2\right) -$$

$$\left(80 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^4 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^2\right) +$$

$$\left(40\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$
$$\frac{1}{(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$
$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-\frac{8\,(20\,A-15\,B+10\,C+36\,A\,\text{Cos}[c]-20\,B\,\text{Cos}[c]+10\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\frac{16\,(2\,A-B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\right.$$
$$\frac{8\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(4\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-3\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+2\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-$$
$$\left.\frac{16\,(2\,A-B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{8\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$
$$-\frac{(7\,A-4\,B+C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(10\,A-5\,B+2\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$
$$\frac{(10\,A-5\,B+2\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}-\frac{(A-B+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(7\,A-4\,B+C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])}$$
$$-\left(14\,i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$
$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\left(8\,i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(2\,i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(80\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\left(40\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(16\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(3\,A-2\,B+C+4\,A\,\mathrm{Cos}[c]-2\,B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}+\right.\right.$$

$$\frac{16\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(3\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{16\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}-$$

$$\left.\left.\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$\frac{(4\,A-B)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}-\frac{(5\,A-2\,B-C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(5\,A-2\,B-C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(40\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(16\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{8\,(2\,A-B+2\,A\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(2\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}+\right.$$

$$\left.\left.\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(16\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(4\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$-\frac{(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(2\,A+B+2\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(A-C)\,\text{Sin}[c+d\,x]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(16\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\left(8\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])^2\right)-$$

$$\Bigg(16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\ \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{8\,(A-C)\,\text{Csc}[c]}{d}+\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{d}-$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\Bigg)\Bigg)\Bigg/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ (a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(4\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(4\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,6,\,0\right\}$$

$$\frac{(B-4\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(A+2\,B-5\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}-$$

$$\frac{(B-4\,C)\,\mathrm{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(A+2\,B-5\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(16\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(40\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\frac{8\,(-B+4\,C)}{d\,(-\mathrm{Sin}[c]+\mathrm{Sin}[2\,c])}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-4\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)}{d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}+$$

$$\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\Bigg)\Bigg)\Big/\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\Bigg(4\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\Bigg(16\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$\frac{(A-4\,B+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a^2\,d}+\frac{(2\,A-5\,B+10\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+\frac{(2\,A-5\,B+10\,C)\,\text{Sin}[c+d\,x]}{3\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}}-$$

$$\frac{(A-4\,B+7\,C)\,\text{Sin}[c+d\,x]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(A-4\,B+7\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\Bigg(2\,i\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(8\,i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\left(14\,i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\sqrt{e^{-i\,(c+d\,x)}\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(16\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])^2\right)+$$

$$\left(40\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+dx])^2\right)-$$

$$\left(80\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,(4\,C-3\,A\,\mathrm{Cos}[c]+12\,B\,\mathrm{Cos}[c]-27\,C\,\mathrm{Cos}[c]+2\,C\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{3\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\frac{16\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{16\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+$$

$$\frac{1}{3\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}8\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-2\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-3\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+\right.$$

$$12\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-21\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-5\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+9\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+2\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$\left.2\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+2\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+2\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-5\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+10\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)+$$

$$\frac{1}{3\,d}4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]+B\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]+A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]-B\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+\right.$$

$$\left.\left.3\,C\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+2\,C\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-2\,C\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$-\frac{(20\,A-35\,B+56\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^2\,d}-\frac{5\,(A-2\,B+3\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^2\,d}+$$

$$\frac{(20\,A-35\,B+56\,C)\,\mathrm{Sin}[c+d\,x]}{15\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}-\frac{5\,(A-2\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{(20\,A-35\,B+56\,C)\,\mathrm{Sin}[c+d\,x]}{5\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(A-2\,B+3\,C)\,\mathrm{Sin}[c+d\,x]}{a\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(8\,i\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(14\,i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(112\,i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(40\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)-$$

$$\left(80\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2\right)+$$

$$\left(40\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^2}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\sqrt{\text{Cos}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,(10\,A+10\,B-30\,C+45\,A\,\text{Cos}[c]-120\,B\,\text{Cos}[c]+213\,C\,\text{Cos}[c]+5\,A\,\text{Cos}[2\,c]+5\,B\,\text{Cos}[2\,c]-15\,C\,\text{Cos}[2\,c])\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}[c]}{15\,d\left(-2\,\text{Sin}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]+B\,\text{Sin}\left[\frac{d\,x}{2}\right]-3\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+$$

$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{3\,d}+\frac{16\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}+$$

$$\frac{16\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(3\,C\,\text{Sin}[c]+5\,B\,\text{Sin}[d\,x]-10\,C\,\text{Sin}[d\,x])}{15\,d}-$$

$$\frac{8\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(-2\,B\,\text{Sin}[c]+4\,C\,\text{Sin}[c]+A\,\text{Sin}[d\,x]+B\,\text{Sin}[d\,x]-3\,C\,\text{Sin}[d\,x])}{3\,d}-$$

$$\left(8\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-60\,A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+105\,B\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-168\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+35\,A\,\text{Sin}\left[c-\frac{d\,x}{2}\right]-\right.\right.$$

$$\left.\left.55\,B\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+93\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+25\,A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-50\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+75\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/$$

$$\left.\left(15\,d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$

$$\frac{7\,(33\,A-17\,B+7\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-$$

$$\frac{(63\,A-33\,B+13\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(63\,A-33\,B+13\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^3\,d}+$$

$$\frac{7\,(33\,A-17\,B+7\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{30\,a^3\,d}-\frac{(A-B+C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$

$$\frac{(12\,A-7\,B+2\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(63\,A-33\,B+13\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{10\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(462\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(238\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(98\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(168\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\, \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(88\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\, \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(104\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$
$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$
$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{8\,(99\,A-59\,B+29\,C+132\,A\,\text{Cos}[c]-60\,B\,\text{Cos}[c]+20\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\right.$$
$$\frac{32\,(3\,A-B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{16\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}-\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(24\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-19\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+14\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(99\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-59\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+29\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\frac{32\,(3\,A-B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+$$
$$\left.\frac{16\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{8\,(24\,A-19\,B+14\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$
$$-\frac{(119\,A-49\,B+9\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(33\,A-13\,B+3\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+$$
$$\frac{(33\,A-13\,B+3\,C)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{6\,a^3\,d}-\frac{(A-B+C)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d\,(a+a\,\text{Sec}[c+d\,x])^3}-$$
$$\frac{(2\,A-B)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(119\,A-49\,B+9\,C)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{30\,a^2\,d\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(238\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(98\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(18\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(88 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(104 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(59\,A-29\,B+9\,C+60\,A\,\mathrm{Cos}[c]-20\,B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}+\right.$$

$$\frac{32\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}+\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(59\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-29\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+9\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(19\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-14\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+9\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{32\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}-$$

$$\left.\frac{8\,(19\,A-14\,B+9\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{(49\,A-9\,B-C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}-\frac{(13\,A-3\,B-C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-\frac{(8\,A-3\,B-2\,C)\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(13\,A-3\,B-C)\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(98\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(18\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(2\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(104 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\, \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(8 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\, \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$
$$\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\left(-\frac{8\,(29\,A-9\,B-C+20\,A\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(29\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-9\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]-C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-\right.$$
$$\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(14\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-9\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+4\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+$$
$$\left.\left.\frac{8\,(14\,A-9\,B+4\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$
$$\left(\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$
$$-\frac{(9\,A+B-C)\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(3\,A+B+C)\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]}{6\,a^3\,d}-$$
$$\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(6\,A-B-4\,C)\,\text{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(3\,A+B+C)\,\text{Sin}[c+d\,x]}{6\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(18\,i\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]$$

$$\left.\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(2\,i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(2\,i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{8\,(9\,A+B-C)\,\mathrm{Csc}[c]}{5\,d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(9\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-4\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\right.$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(9\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\left.\left.\frac{8\,(9\,A-4\,B-C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\sqrt{\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$-\frac{(A-B-9\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A+B+3\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{(4\,A+B-6\,C)\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(A-B-9\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(2\,i\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(2\,i\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(18\,i\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)\mathrm{Sec}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)-$$

$$\left(8\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{8\,(A-B-9\,C)\,\mathrm{Csc}[c]}{5\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-9\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(4\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-6\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\left.\left.\frac{8\,(4\,A+B-6\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)\right)\Big/$$

$$\left(\sqrt{\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3},\,x,\,7,\,0\right\}$$

$$\frac{(A+9\,B-49\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(A+3\,B-13\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}-\frac{(A+9\,B-49\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}+\frac{(2\,A+3\,B-8\,C)\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}+\frac{(A+3\,B-13\,C)\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(2 i A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(18 i B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(98 i C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(8 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(8 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(104\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^3\right)+$$
$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^3}$$
$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(-\frac{8\,(A+9\,B-49\,C)}{5\,d\,(-\text{Sin}[c]+\text{Sin}[2\,c])}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$
$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-6\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+11\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\left(8\,\text{Sec}\left[\frac{3\,c}{2}\right]\left(-A\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-9\,B\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]+\right.\right.$$
$$\left.\left.49\,C\,\text{Sin}\left[\frac{3\,d\,x}{2}\right]-20\,C\,\text{Sin}\left[c-\frac{d\,x}{2}\right]+A\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]+9\,B\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]-29\,C\,\text{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)\right)\Big/$$
$$\left.\left(5\,d\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)+\frac{8\,(A-6\,B+11\,C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\text{Tan}\left[\frac{c}{2}\right]}{15\,d}+\frac{4\,(A-B+C)\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\text{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3},\,x,\,8,\,0\right\}$$
$$\frac{(9\,A-49\,B+119\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^3\,d}+\frac{(3\,A-13\,B+33\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{6\,a^3\,d}+$$
$$\frac{(3\,A-13\,B+33\,C)\,\text{Sin}[c+d\,x]}{6\,a^3\,d\,\text{Cos}[c+d\,x]^{3/2}}-\frac{(9\,A-49\,B+119\,C)\,\text{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{5\,d\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$
$$\frac{(B-2\,C)\,\text{Sin}[c+d\,x]}{3\,a\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(9\,A-49\,B+119\,C)\,\text{Sin}[c+d\,x]}{30\,a^2\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(18\, i\, A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(98\, i\, B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(238\, i\, C \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(8 A \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) +$$

$$\left(104 B \operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]^6 \operatorname{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2} (a+a \operatorname{Sec}[c+d x])^3\right) -$$

$$\left(88\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3\right)+$$

$$\frac{1}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^3}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{4\,(40\,C-27\,A\,\mathrm{Cos}[c]+147\,B\,\mathrm{Cos}[c]-417\,C\,\mathrm{Cos}[c]+20\,C\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]}{15\,d\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{32\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(6\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-11\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+16\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{15\,d}+\frac{32\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+$$

$$\frac{1}{15\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}\,8\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\left(-24\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+44\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-64\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-27\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+\right.$$

$$147\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-357\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-12\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-38\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+128\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+24\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$\left.44\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+64\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+15\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-65\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+165\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\right)+\frac{1}{15\,d}$$

$$8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(-6\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]+11\,B\,\mathrm{Sin}\left[\frac{c}{2}\right]-6\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]+6\,A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]-11\,B\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+26\,C\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+\right.$$

$$\left.\left.10\,C\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-10\,C\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\right)-\frac{8\,(6\,A-11\,B+16\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{15\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{5\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\,x,\,9,\,0\right\}$$

$$\frac{(407\,A-176\,B+57\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}-\frac{(260\,A-113\,B+36\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{14\,a^4\,d}-$$

$$\frac{(260\,A-113\,B+36\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{14\,a^4\,d}+\frac{(407\,A-176\,B+57\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{30\,a^4\,d}-$$

$$\frac{(A-B+C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{(15\,A-8\,B+C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(305\,A-137\,B+39\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{210\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{3\,(260\,A-113\,B+36\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{70\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$\left(4160\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(1808\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)+$$

$$\left(576\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{16\,(195\,A-96\,B+37\,C+212\,A\,\text{Cos}[c]-80\,B\,\text{Cos}[c]+20\,C\,\text{Cos}[c])\,\text{Csc}[c]}{5\,d}-\right.$$

$$\frac{64\,(4\,A-B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{32\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\,\left(A\,\text{Sin}\left[\frac{d\,x}{2}\right]-B\,\text{Sin}\left[\frac{d\,x}{2}\right]+C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}-$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(40\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-33\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+26\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}-$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\left(195\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-96\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+37\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(965\,A\,\text{Sin}\left[\frac{d\,x}{2}\right]-629\,B\,\text{Sin}\left[\frac{d\,x}{2}\right]+363\,C\,\text{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}-$$

$$\frac{64\,(4\,A-B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{32\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}+\frac{8\,(965\,A-629\,B+363\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}-$$

$$\left.\frac{8\,(40\,A-33\,B+26\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\right)-$$

$$\left(3256\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left.\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+\right.$$

$$\left(1408\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(456\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+a\,\mathrm{Sec}[c+d\,x])^4},\,x,\,8,\,0\right\}$$

$$-\frac{(176\,A-57\,B+8\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}+$$

$$\frac{(339\,A-108\,B+17\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{42\,a^4\,d}+\frac{(339\,A-108\,B+17\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{42\,a^4\,d}-$$

$$\frac{(A-B+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{7\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^4}-\frac{(13\,A-6\,B-C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{35\,a\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(43\,A-15\,B+C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{42\,a^2\,d\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(176\,A-57\,B+8\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{30\,a^3\,d\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(1808\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\right.$$

$$\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\left(576\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(272\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\left(\frac{16\,(96\,A-37\,B+8\,C+80\,A\,\mathrm{Cos}[c]-20\,B\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}+\right.$$

$$\frac{64\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}+$$

$$\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(96\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-37\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+8\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(33\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-26\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+19\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(629\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-363\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+167\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+$$

$$\frac{64\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,d}-\frac{8\,(629\,A-363\,B+167\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\,\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}+$$

$$\left.\frac{8\,(33\,A-26\,B+19\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\,\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\,\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\right)+$$

$$\left(1408\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(456\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\left(64\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,7,\,0\right\}$$

$$\frac{(57\,A-8\,B-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}-\frac{(108\,A-17\,B-4\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{42\,a^4\,d}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{7\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^4}-\frac{(11\,A-4\,B-3\,C)\,\text{Sin}[c+d\,x]}{35\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^3}-\frac{(141\,A-29\,B-13\,C)\,\text{Sin}[c+d\,x]}{210\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(108\,A-17\,B-4\,C)\,\text{Sin}[c+d\,x]}{42\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$\left(576\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(272\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(64\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)$$

$$\left(-\frac{16\,(37\,A-8\,B-C+20\,A\,\mathrm{Cos}[c])\,\mathrm{Csc}[c]}{5\,d}-\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(37\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-8\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(26\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-19\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+12\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(363\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-167\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+41\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+\frac{8\,(363\,A-167\,B+41\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}-$$

$$\left.\frac{8\,(26\,A-19\,B+12\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\right)-$$

$$\left(456\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)+$$

$$\Bigg(64\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)+$$

$$\Bigg(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,7,\,0\right\}$$

$$-\frac{(8A+B)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{10a^4d}+\frac{(17A+4B+3C)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{42a^4d}-$$

$$\frac{(A-B+C)\,\text{Sin}[c+dx]}{7d\,\text{Cos}[c+dx]^{3/2}\,(a+a\,\text{Sec}[c+dx])^4}+\frac{(9A-2B-5C)\,\text{Sin}[c+dx]}{35ad\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^3}+$$

$$\frac{(29A+13B+15C)\,\text{Sin}[c+dx]}{210a^2d\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^2}+\frac{(17A+4B+3C)\,\text{Sin}[c+dx]}{42a^3d\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])}$$

$$-\left(272A\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+dx]^2\right.$$

$$\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])^4\right)-$$

$$\left(16C\,\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right]\text{Sec}[c+dx]^2\right.$$

$$\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7d\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+dx])^4\right)+$$

$$\frac{1}{\text{Cos}[c+dx]^{3/2}\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,(a+a\,\text{Sec}[c+dx])^4}$$

$$\text{Cos}\left[\frac{c}{2}+\frac{dx}{2}\right]^8\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(\frac{16(8A+B)\,\text{Csc}[c]}{5d}+\right.$$

$$\frac{16\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\left(8A\,\text{Sin}\left[\frac{dx}{2}\right]+B\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{5d}-\frac{8\,\text{Sec}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(167A\,\text{Sin}\left[\frac{dx}{2}\right]-41B\,\text{Sin}\left[\frac{dx}{2}\right]-15C\,\text{Sin}\left[\frac{dx}{2}\right]\right)}{105d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(19\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-12\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+5\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}-\frac{8\,(167\,A-41\,B-15\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}+$$

$$\left.\frac{8\,(19\,A-12\,B+5\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\right)+$$

$$\left(64\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\left(8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$-\frac{(A-C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{10\,a^4\,d}+\frac{(4\,A+3\,B+4\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{42\,a^4\,d}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^4}+\frac{(A-C)\,\text{Sin}[c+d\,x]}{5\,a\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+\frac{(A-15\,B-41\,C)\,\text{Sin}[c+d\,x]}{210\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(4\,A+3\,B+4\,C)\,\text{Sin}[c+d\,x]}{42\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(64\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(16\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(64\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(\frac{16\,(A-C)\,\mathrm{Csc}[c]}{5\,d}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(12\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-5\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}+\right.$$

$$\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(41\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+15\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}+\frac{8\,(41\,A+15\,B-C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}-$$

$$\left.\frac{8\,(12\,A-5\,B-2\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\right)+$$

$$\left(8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(8\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},\,-\frac{1}{4}\right\},\,\left\{\frac{3}{4}\right\},\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left.\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)\right.$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,7,\,0\right\}$$

$$\frac{(B+8\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}+\frac{(3\,A+4\,B+17\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{42\,a^4\,d}-$$

$$\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^4}+\frac{(5\,A+2\,B-9\,C)\,\text{Sin}[c+d\,x]}{35\,a\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(15\,A-B-83\,C)\,\text{Sin}[c+d\,x]}{210\,a^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^2}-\frac{(B+8\,C)\,\text{Sin}[c+d\,x]}{10\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(16\,A\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(64\,B\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,\text{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\Bigg(272\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{16\,(B+8\,C)\,\mathrm{Csc}[c]}{5\,d}+\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(15\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-83\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\left(5\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+2\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-9\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}-$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}-\frac{16\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\left(B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+8\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{5\,d}+$$

$$\frac{8\,(15\,A-B-83\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}+\frac{8\,(5\,A+2\,B-9\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\Bigg)-$$

$$\Bigg(8\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\left(64\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^4},\,x,\,8,\,0\right\}$$

$$\frac{(A+8\,B-57\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}+\frac{(4\,A+17\,B-108\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{42\,a^4\,d}-$$

$$\frac{(A+8\,B-57\,C)\,\text{Sin}[c+d\,x]}{10\,a^4\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{(A-B+C)\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{9/2}\,(a+a\,\text{Sec}[c+d\,x])^4}+\frac{(3\,A+4\,B-11\,C)\,\text{Sin}[c+d\,x]}{35\,a\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+a\,\text{Sec}[c+d\,x])^3}+$$

$$\frac{(13\,A+29\,B-141\,C)\,\text{Sin}[c+d\,x]}{210\,a^2\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+a\,\text{Sec}[c+d\,x])^2}+\frac{(4\,A+17\,B-108\,C)\,\text{Sin}[c+d\,x]}{42\,a^3\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])}$$

$$-\left(64\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\left(a+a\,\mathrm{Sec}[c+d\,x]\right)^4\right)-$$

$$\left(272\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\left(a+a\,\mathrm{Sec}[c+d\,x]\right)^4\right)+$$

$$\left(576\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\left(a+a\,\mathrm{Sec}[c+d\,x]\right)^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\,\left(a+a\,\mathrm{Sec}[c+d\,x]\right)^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{16\,(A+8\,B-57\,C)}{5\,d\,(-\mathrm{Sin}[c]+\mathrm{Sin}[2\,c])}-\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+83\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-237\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+\right.$$

$$\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}+$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(2\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-9\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+16\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}+$$

$$\left(16\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\,\left(-A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-8\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+57\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-20\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+\right.\right.$$

$$8\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-37\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\Bigg)\Bigg)\Bigg/\left(5\,d\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)\right)-$$

$$\frac{8\,(A+83\,B-237\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}+\frac{8\,(2\,A-9\,B+16\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}+\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\Bigg)-$$

$$\Bigg(8\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\Bigg(64\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\left(456\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4},\,x,\,9,\,0\right\}$$

$$\frac{(8\,A-57\,B+176\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{10\,a^4\,d}+\frac{(17\,A-108\,B+339\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{42\,a^4\,d}+$$

$$\frac{(17\,A-108\,B+339\,C)\,\mathrm{Sin}[c+d\,x]}{42\,a^4\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}-\frac{(8\,A-57\,B+176\,C)\,\mathrm{Sin}[c+d\,x]}{10\,a^4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Cos}[c+d\,x]^{11/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4}+\frac{(A+6\,B-13\,C)\,\mathrm{Sin}[c+d\,x]}{35\,a\,d\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{(A-15\,B+43\,C)\,\mathrm{Sin}[c+d\,x]}{42\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^2}-\frac{(8\,A-57\,B+176\,C)\,\mathrm{Sin}[c+d\,x]}{30\,a^3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])}$$

$$-\left(272\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\mathrm{Sec}[c+d\,x]^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\left(576\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)-$$

$$\left(1808\,C\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,\mathrm{Sec}[c+d\,x]^2\right.$$

$$(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{\mathrm{Cos}[c+d\,x]^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4}$$

$$\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)$$

$$\left(\frac{8\,(40\,C-24\,A\,\mathrm{Cos}[c]+171\,B\,\mathrm{Cos}[c]-588\,C\,\mathrm{Cos}[c]+20\,C\,\mathrm{Cos}[2\,c])\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}[c]}{15\,d\,\left(-2\,\mathrm{Sin}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{3\,c}{2}\right]\right)}+\right.$$

$$\frac{64\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{3\,d}-\frac{4\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^7\,\left(A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{7\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^5\,\left(9\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-16\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+23\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{35\,d}-$$

$$\frac{8\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\,\left(83\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-237\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+461\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{105\,d}+$$

$$\frac{64\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{1}{105\,d\,\left(\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Cos}\left[\frac{3\,c}{2}+\frac{3\,d\,x}{2}\right]\right)}$$

$$16\,\mathrm{Sec}\left[\frac{3\,c}{2}\right]\,\left(-166\,A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+474\,B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-922\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-168\,A\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]+1197\,B\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-\right.$$

$$3696\,C\,\mathrm{Sin}\left[\frac{3\,d\,x}{2}\right]-83\,A\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]-183\,B\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+1079\,C\,\mathrm{Sin}\left[c-\frac{d\,x}{2}\right]+166\,A\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]-$$

$$474\,B\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+922\,C\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]+85\,A\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]-540\,B\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]+1695\,C\,\mathrm{Sin}\left[2\,c+\frac{d\,x}{2}\right]\Bigg)+\frac{1}{105\,d}$$

$$8\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\Bigg(-83\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]+237\,B\,\mathrm{Sin}\left[\frac{c}{2}\right]-321\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]+83\,A\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]-237\,B\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+$$

$$601\,C\,\mathrm{Sin}\left[\frac{3\,c}{2}\right]+140\,C\,\mathrm{Sin}\left[\frac{c}{2}-d\,x\right]-140\,C\,\mathrm{Sin}\left[\frac{c}{2}+d\,x\right]\Bigg)-\frac{8\,(83\,A-237\,B+461\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\mathrm{Tan}\left[\frac{c}{2}\right]}{105\,d}-$$

$$\frac{8\,(9\,A-16\,B+23\,C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^4\mathrm{Tan}\left[\frac{c}{2}\right]}{35\,d}-\frac{4\,(A-B+C)\,\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^6\mathrm{Tan}\left[\frac{c}{2}\right]}{7\,d}\Bigg)-$$

$$\Bigg(64\,A\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+a\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\Bigg(456\,B\,\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\mathrm{Csc}[c]\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)-$$

$$\Bigg(1408\,C\,\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^8\,\text{Csc}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+a\,\text{Sec}[c+d\,x])^4\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,4,\,0\right\}$$

$$\frac{\sqrt{2}\,a\,(2\,B+C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(2\,A-C)\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\Bigg(2\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\Bigg((2\,B+C)\,\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\,\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)$$

$$\text{Sin}[c+d\,x]\Bigg)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$(C+2\,A\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Big/\left(d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\,x,\,4,\,0\right\}$$

$$\frac{a\,(8\,A+4\,B+3\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(4\,B+C)\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-\left((8\,A+4\,B+3\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+(2\,C+(4\,B+3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,5,\,0\right\}$$
$$\frac{a\,(8\,A+6\,B+5\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,(6\,B+C)\,\mathrm{Sin}[c+d\,x]}{12\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,(8\,A+6\,B+5\,C)\,\mathrm{Sin}[c+d\,x]}{8\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$
$$\frac{1}{24\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(-\left(6\,(8\,A+6\,B+5\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$
$$\left.\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+$$
$$(24\,A+18\,B+31\,C+4\,(6\,B+5\,C)\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+6\,B+5\,C)\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{5/2}},\,x,\,6,\,0\right\}$$
$$\frac{a\,(48\,A+40\,B+35\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,(8\,B+C)\,\mathrm{Sin}[c+d\,x]}{24\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{a\,(48\,A+40\,B+35\,C)\,\mathrm{Sin}[c+d\,x]}{96\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a\,(48\,A+40\,B+35\,C)\,\mathrm{Sin}[c+d\,x]}{64\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{7/2}}$$
$$\frac{1}{384\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\sqrt{a\,(1+\mathrm{Sec}[c+d\,x])}$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\left(12\,(48\,A+40\,B+35\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\right.\right.\right.$$
$$\left.\left.\left.\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+$$
$$(192\,A+160\,B+332\,C+(432\,A+77\,(8\,B+7\,C))\,\mathrm{Cos}[c+d\,x]+4\,(48\,A+40\,B+35\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+$$
$$144\,A\,\mathrm{Cos}[3\,(c+d\,x)]+120\,B\,\mathrm{Cos}[3\,(c+d\,x)]+105\,C\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\sqrt{2}\,a^2\,C\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,(12\,A+20\,B+15\,C)\,\text{Sin}[c+d\,x]}{15\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(3\,A+5\,B)\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{15\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}$$

$$2\,a\,\text{Cos}[c+d\,x]^{5/2}\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}}30\,C\,\text{Csc}[c+d\,x]\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\sqrt{\text{Sin}[c+d\,x]^2}+$$

$$\left.(39\,A+50\,B+30\,C+2\,(9\,A+5\,B)\,\text{Cos}[c+d\,x]+3\,A\,\text{Cos}[2\,(c+d\,x)])\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{\sqrt{2}\,a^2\,(2\,B+3\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(8\,A+6\,B-3\,C)\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-$$

$$\frac{a\,(2\,A-3\,C)\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,2\,a\,\text{Cos}[c+d\,x]^{5/2}\sqrt{a\,(1+\text{Sec}[c+d\,x])}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(3\,(2\,B+3\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$\left.(A+3\,C+2\,(5\,A+3\,B)\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(8\,A+12\,B+7\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]}{2\sqrt{2}\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(8\,A-4\,B-5\,C)\,\text{Sin}[c+d\,x]}{4\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(4\,B+3\,C)\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\sqrt{\text{Cos}[c+d\,x]}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(2\,(8\,A+12\,B+7\,C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$\left.((4\,B+7\,C)\,\text{Cos}[c+d\,x]+2\,(2\,A+C+2\,A\,\text{Cos}[2\,(c+d\,x)]))\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 5,\ 0\right\}$$

$$\frac{a^2\,(24\,A+14\,B+11\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(24\,A+30\,B+19\,C)\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,(2\,B+C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{48\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}$$

$$\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\left(12\,(24\,A+14\,B+11\,C)\right.\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\text{Sin}[c+d\,x]\Big)\Big/$$

$$\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+(24\,A+42\,B+49\,C+4\,(6\,B+11\,C)\,\text{Cos}[c+d\,x]+$$

$$\left.\left.3\,(8\,A+14\,B+11\,C)\,\text{Cos}[2\,(c+d\,x)]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{a^2\,(112\,A+88\,B+75\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a^2\,(48\,A+56\,B+39\,C)\,\text{Sin}[c+d\,x]}{96\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a^2\,(112\,A+88\,B+75\,C)\,\text{Sin}[c+d\,x]}{64\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{a\,(8\,B+3\,C)\,\sqrt{a+a\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{C\,(a+a\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{768\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}$$

$$\text{Cos}[c+d\,x]^{5/2}\,(a\,(1+\text{Sec}[c+d\,x]))^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\left(24\,(112\,A+88\,B+75\,C)\right.\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\text{Sin}[c+d\,x]\Big)\Big/$$

$$\left(\sqrt{1+\text{Cos}[c+d\,x]}\,(1+\text{Sec}[c+d\,x])\,\sqrt{\text{Sin}[c+d\,x]^2}\right)+$$

$$(192\,A+352\,B+492\,C+(1008\,A+1048\,B+1155\,C)\,\text{Cos}[c+d\,x]+4\,(48\,A+88\,B+75\,C)\,\text{Cos}[2\,(c+d\,x)]+$$

$$\left.\left.336\,A\,\text{Cos}[3\,(c+d\,x)]+264\,B\,\text{Cos}[3\,(c+d\,x)]+225\,C\,\text{Cos}[3\,(c+d\,x)]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]^3\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{a^2 (176 A + 150 B + 133 C) \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{64 \sqrt{2} d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (80 A + 90 B + 67 C) \text{Sin}[c + d x]}{240 d \text{Cos}[c + d x]^{7/2} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a^2 (176 A + 150 B + 133 C) \text{Sin}[c + d x]}{192 d \text{Cos}[c + d x]^{5/2} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{a^2 (176 A + 150 B + 133 C) \text{Sin}[c + d x]}{128 d \text{Cos}[c + d x]^{3/2} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{a (10 B + 3 C) \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{40 d \text{Cos}[c + d x]^{7/2}} + \frac{C (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{5 d \text{Cos}[c + d x]^{7/2}}$$

$$\frac{1}{15360 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)])}$$

$$\text{Cos}[c + d x]^{5/2} (a (1 + \text{Sec}[c + d x]))^{3/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \left(-\left(240 (176 A + 150 B + 133 C)\right.\right.$$

$$\left(\text{Log}\left[\sqrt{\text{Cos}[c + d x]} (1 + \text{Cos}[c + d x])\right] - \text{Log}\left[2 \left(1 + \text{Cos}[c + d x] + \sqrt{1 + \text{Cos}[c + d x]} \sqrt{\text{Sin}[c + d x]^2}\right)\right]\right) \text{Sin}[c + d x]\Big) \Big/$$

$$\left(\sqrt{1 + \text{Cos}[c + d x]} (1 + \text{Sec}[c + d x]) \sqrt{\text{Sin}[c + d x]^2}\right) +$$

$$(10480 A + 11550 B + 13313 C + 12 (880 A + 1070 B + 1273 C) \text{Cos}[c + d x] + 4 (3280 A + 3450 B + 3059 C) \text{Cos}[2 (c + d x)] +$$

$$3520 A \text{Cos}[3 (c + d x)] + 3000 B \text{Cos}[3 (c + d x)] + 2660 C \text{Cos}[3 (c + d x)] + 2640 A \text{Cos}[4 (c + d x)] +$$

$$\left.2250 B \text{Cos}[4 (c + d x)] + 1995 C \text{Cos}[4 (c + d x)]) \text{Sec}\left[\frac{1}{2} (c + d x)\right]^2 \text{Sec}[c + d x]^4 \text{Tan}\left[\frac{1}{2} (c + d x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c + d x]^{7/2} (a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{2 \sqrt{2} a^3 C \text{ArcTanh}\left[\sqrt{2} \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] \text{Cos}\left[\frac{1}{2} (c + d x)\right]}{d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} +$$

$$\frac{2 a^3 (160 A + 224 B + 245 C) \text{Sin}[c + d x]}{105 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]}} + \frac{2 a^2 (40 A + 56 B + 35 C) \sqrt{\text{Cos}[c + d x]} \sqrt{a + a \text{Sec}[c + d x]} \text{Sin}[c + d x]}{105 d} +$$

$$\frac{2 a (5 A + 7 B) \text{Cos}[c + d x]^{3/2} (a + a \text{Sec}[c + d x])^{3/2} \text{Sin}[c + d x]}{35 d} + \frac{2 A \text{Cos}[c + d x]^{5/2} (a + a \text{Sec}[c + d x])^{5/2} \text{Sin}[c + d x]}{7 d}$$

$$\Bigg(\text{Cos}[c + d x]^{5/2} (a (1 + \text{Sec}[c + d x]))^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right)$$

$$\Bigg(-\frac{420 C \left(\text{Log}\left[\sqrt{\text{Cos}[c + d x]} (1 + \text{Cos}[c + d x])\right] - \text{Log}\left[2 \left(1 + \text{Cos}[c + d x] + \sqrt{1 + \text{Cos}[c + d x]} \sqrt{\text{Sin}[c + d x]^2}\right)\right]\right) \text{Sin}[c + d x]}{\sqrt{1 + \text{Cos}[c + d x]} \sqrt{\text{Sin}[c + d x]^2}} +$$

$$(1040 A + 1246 B + 1120 C + (505 A + 392 B + 140 C) \text{Cos}[c + d x] + 6 (20 A + 7 B) \text{Cos}[2 (c + d x)] + 15 A \text{Cos}[3 (c + d x)])$$

$$\left.\text{Tan}\left[\frac{1}{2} (c + d x)\right]\right)\Bigg) \Big/ \left(105 d (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)]) (1 + \text{Sec}[c + d x])^2\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c + d x]^{5/2} (a + a \text{Sec}[c + d x])^{5/2} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{\sqrt{2}\, a^3 (2B+5C)\, \text{ArcTanh}\left[\sqrt{2}\, \text{Sin}\left[\frac{1}{2}(c+dx)\right]\right] \text{Cos}\left[\frac{1}{2}(c+dx)\right]}{d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} +$$

$$\frac{a^3 (64A+70B+15C)\, \text{Sin}[c+dx]}{15d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} - \frac{a^2 (16A+10B-15C)\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{15d\sqrt{\text{Cos}[c+dx]}} +$$

$$\frac{2a(A+B)\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{3d} + \frac{2A\,\text{Cos}[c+dx]^{3/2}(a+a\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{5d}$$

$$\frac{1}{60d(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2(c+dx)])}\text{Cos}[c+dx]^{5/2}(a(1+\text{Sec}[c+dx]))^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(-\left(120(2B+5C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+dx]}\,(1+\text{Cos}[c+dx])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+dx]+\sqrt{1+\text{Cos}[c+dx]}\,\sqrt{\text{Sin}[c+dx]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+dx]\right)\Big/\left(\sqrt{1+\text{Cos}[c+dx]}\,(1+\text{Sec}[c+dx])^2\sqrt{\text{Sin}[c+dx]^2}\right)+$$

$$\text{Cos}[c+dx](28A+10B+30C+(181A+160B+60C)\,\text{Cos}[c+dx]+2(14A+5B)\,\text{Cos}[2(c+dx)]+3A\,\text{Cos}[3(c+dx)])$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+dx)\right]^4\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+dx]^{3/2}(a+a\,\text{Sec}[c+dx])^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a^3(8A+20B+19C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{2\sqrt{2}\,d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} +$$

$$\frac{a^3(56A+12B-27C)\,\text{Sin}[c+dx]}{12d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} - \frac{a^2(8A-12B-21C)\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{12d\sqrt{\text{Cos}[c+dx]}} -$$

$$\frac{a(4A-3C)(a+a\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{6d\sqrt{\text{Cos}[c+dx]}} + \frac{2A\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{3d}$$

$$\frac{1}{24d(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2(c+dx)])}\text{Cos}[c+dx]^{5/2}(a(1+\text{Sec}[c+dx]))^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\left(-\left(12(8A+20B+19C)\left(\text{Log}\left[\sqrt{\text{Cos}[c+dx]}\,(1+\text{Cos}[c+dx])\right]-\text{Log}\left[2\left(1+\text{Cos}[c+dx]+\sqrt{1+\text{Cos}[c+dx]}\,\sqrt{\text{Sin}[c+dx]^2}\right)\right]\right)\right.\right.$$

$$\left.\text{Sin}[c+dx]\right)\Big/\left(\sqrt{1+\text{Cos}[c+dx]}\,(1+\text{Sec}[c+dx])^2\sqrt{\text{Sin}[c+dx]^2}\right)+$$

$$(3(2A+4B+11C)\,\text{Cos}[c+dx]+2(16A+6B+3C+2(8A+3B)\,\text{Cos}[2(c+dx)]+A\,\text{Cos}[3(c+dx)]))$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+dx)\right]^4\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\text{Cos}[c+dx]}\,(a+a\,\text{Sec}[c+dx])^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a^3(40A+38B+25C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\text{Cos}\left[\frac{1}{2}(c+dx)\right]}{4\sqrt{2}\,d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} +$$

$$\frac{a^3(24A-54B-49C)\,\text{Sin}[c+dx]}{24d\sqrt{\text{Cos}[c+dx]}\,\sqrt{a+a\,\text{Sec}[c+dx]}} + \frac{a^2(24A+42B+31C)\sqrt{a+a\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{24d\sqrt{\text{Cos}[c+dx]}} +$$

$$\frac{a(6B+5C)(a+a\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{12d\sqrt{\text{Cos}[c+dx]}} + \frac{C(a+a\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{3d\sqrt{\text{Cos}[c+dx]}}$$

$$\frac{1}{96\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\left(24\,(40\,A+38\,B+25\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^2\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+(24\,A+66\,B+91\,C+4\,(18\,A+6\,B+17\,C)\,\mathrm{Cos}[c+d\,x]+3\,(8\,A+22\,B+25\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+24\,A\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$\frac{a^3\,(304\,A+200\,B+163\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{32\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(432\,A+392\,B+299\,C)\,\mathrm{Sin}[c+d\,x]}{192\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(16\,A+24\,B+17\,C)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{32\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{a\,(8\,B+5\,C)\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{24\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{1536\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^{5/2}\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\left(48\,(304\,A+200\,B+163\,C)\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]\right)\Big/\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^2\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+(192\,A+544\,B+844\,C+(1584\,A+2056\,B+2203\,C)\,\mathrm{Cos}[c+d\,x]+4\,(48\,A+136\,B+163\,C)\,\mathrm{Cos}[2\,(c+d\,x)]+528\,A\,\mathrm{Cos}[3\,(c+d\,x)]+600\,B\,\mathrm{Cos}[3\,(c+d\,x)]+489\,C\,\mathrm{Cos}[3\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$\frac{a^3\,(400\,A+326\,B+283\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(1040\,A+950\,B+787\,C)\,\mathrm{Sin}[c+d\,x]}{960\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^3\,(400\,A+326\,B+283\,C)\,\mathrm{Sin}[c+d\,x]}{128\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,(80\,A+110\,B+79\,C)\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{240\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{a\,(2\,B+C)\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{8\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{C\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{30720\, d\, (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2(c+dx)])}$$
$$\mathrm{Cos}[c+dx]^{5/2}\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\Bigg(-\Bigg(480\,(400A+326B+283C)$$
$$\left(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}\,(1+\mathrm{Cos}[c+dx])\right]-\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)\right]\right)\mathrm{Sin}[c+dx]\Bigg)\Big/$$
$$\left(\sqrt{1+\mathrm{Cos}[c+dx]}\,(1+\mathrm{Sec}[c+dx])^2\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)+$$
$$(20560A+22030B+24863C+12\,(1360A+1950B+2343C)\,\mathrm{Cos}[c+dx]+4\,(6640A+6730B+6509C)\,\mathrm{Cos}[2(c+dx)]+$$
$$5440A\,\mathrm{Cos}[3(c+dx)]+6520B\,\mathrm{Cos}[3(c+dx)]+5660C\,\mathrm{Cos}[3(c+dx)]+6000A\,\mathrm{Cos}[4(c+dx)]+$$
$$4890B\,\mathrm{Cos}[4(c+dx)]+4245C\,\mathrm{Cos}[4(c+dx)])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^4\,\mathrm{Sec}[c+dx]^3\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{(a+a\,\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{\mathrm{Cos}[c+dx]^{5/2}},\ x,\ 8,\ 0\right\}$$
$$\frac{a^3\,(1304A+1132B+1015C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]}{256\sqrt{2}\,d\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{a^3\,(680A+628B+545C)\,\mathrm{Sin}[c+dx]}{960\,d\,\mathrm{Cos}[c+dx]^{7/2}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{a^3\,(1304A+1132B+1015C)\,\mathrm{Sin}[c+dx]}{768\,d\,\mathrm{Cos}[c+dx]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{a^3\,(1304A+1132B+1015C)\,\mathrm{Sin}[c+dx]}{512\,d\,\mathrm{Cos}[c+dx]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{a^2\,(120A+156B+115C)\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{480\,d\,\mathrm{Cos}[c+dx]^{7/2}}+$$
$$\frac{a\,(12B+5C)\,(a+a\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{60\,d\,\mathrm{Cos}[c+dx]^{7/2}}+\frac{C\,(a+a\,\mathrm{Sec}[c+dx])^{5/2}\,\mathrm{Sin}[c+dx]}{6\,d\,\mathrm{Cos}[c+dx]^{7/2}}$$

$$\frac{1}{245760\, d\, (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2(c+dx)])}$$
$$\mathrm{Cos}[c+dx]^{5/2}\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$
$$\Bigg(-\Bigg(960\,(1304A+1132B+1015C)\,\Big(\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}\,(1+\mathrm{Cos}[c+dx])\right]-\mathrm{Log}\Big[2\Big(1+\mathrm{Cos}[c+dx]+$$
$$\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\Big)\Big]\Big)\,\mathrm{Sin}[c+dx]\Bigg)\Big/\left(\sqrt{1+\mathrm{Cos}[c+dx]}\,(1+\mathrm{Sec}[c+dx])^2\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)+$$
$$(93600A+112464B+137060C+(283920A+303048B+321370C)\,\mathrm{Cos}[c+dx]+16\,(7480A+8444B+8555C)$$
$$\mathrm{Cos}[2(c+dx)]+127240A\,\mathrm{Cos}[3(c+dx)]+121124B\,\mathrm{Cos}[3(c+dx)]+108605C\,\mathrm{Cos}[3(c+dx)]+$$
$$26080A\,\mathrm{Cos}[4(c+dx)]+22640B\,\mathrm{Cos}[4(c+dx)]+20300C\,\mathrm{Cos}[4(c+dx)]+19560A\,\mathrm{Cos}[5(c+dx)]+$$
$$16980B\,\mathrm{Cos}[5(c+dx)]+15225C\,\mathrm{Cos}[5(c+dx)])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^4\,\mathrm{Sec}[c+dx]^4\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Cos}[c+dx]}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{\sqrt{a+a\,\mathrm{Sec}[c+dx]}},\ x,\ 6,\ 0\right\}$$
$$-\frac{2\,(A-B+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]}{d\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$
$$\frac{2\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}(c+dx)\right]}{d\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{2A\,\mathrm{Sin}[c+dx]}{d\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{a\,(1+\mathrm{Sec}[c+dx])}}$$

$$2\,\mathrm{Cos}[c+dx]^2\sqrt{1+\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{2\,(-A+B)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{d\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}-\right.$$

$$\frac{1}{2d\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}\,C\sqrt{\mathrm{Cos}[c+dx]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}+\mathrm{Cos}[c+dx]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\left[8\right.$$

$$\left.\left.\left(3+2\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[c+dx]^2+2\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\right]\right)\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]\Bigg)+$$

$$\left(\mathrm{Cos}[c+dx]^{5/2}\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\left.\left(\frac{4\,A\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\mathrm{Sin}\left[\frac{dx}{2}\right]}{d}+\frac{4\,A\,\mathrm{Tan}\left[\frac{c}{2}\right]}{d}\right)\right)\Big/$$

$$\left((A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{a\,(1+\mathrm{Sec}[c+dx])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2}{\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,(A-B+C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+dx)\right]}{d\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\sqrt{2}\,(2B-C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+dx)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+dx)\right]}{d\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{a+a\,\mathrm{Sec}[c+dx]}}+\frac{C\,\mathrm{Sin}[c+dx]}{d\,\mathrm{Cos}[c+dx]^{3/2}\sqrt{a+a\,\mathrm{Sec}[c+dx]}}$$

$$\frac{1}{2d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,(c+dx)])\sqrt{a\,(1+\mathrm{Sec}[c+dx])}}\,\mathrm{Cos}[c+dx]^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-2\sqrt{2}\,(2A+C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\mathrm{Csc}[c+dx]\,(1+\mathrm{Sec}[c+dx])+\right.$$

$$\frac{1}{\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}}\,(2B-C)\,\left(-4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}\,(1+\mathrm{Cos}[c+dx])\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[4\left(5+4\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[2\,(c+dx)]+4\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Sin}[c+dx]^2}\right)\right]\right)$$

$$\left.(1+\mathrm{Sec}[c+dx])\,\mathrm{Sin}[c+dx]+4\,C\,\mathrm{Sec}[c+dx]\,\mathrm{Tan}[c+dx]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(8\,A-4\,B+7\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{C\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(4\,B-C)\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-2\,\sqrt{2}\,(4\,B-C)\,\text{ArcTan}\left[\frac{\sqrt{-1+\text{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\text{Cos}[c+d\,x]}\,\text{Csc}[c+d\,x]+\right.$$

$$\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}}\,(8\,A-4\,B+7\,C)\,\left(-4\,\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]+\right.$$

$$\sqrt{2}\,\text{Log}\left[(1+\text{Cos}[c+d\,x])^2\right]+4\,\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]-$$

$$\left.\sqrt{2}\,\text{Log}\left[4\left(5+4\,\text{Cos}[c+d\,x]-\text{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\text{Sin}[c+d\,x]-$$

$$\left.4\,(-2\,C+(-4\,B+C)\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\sqrt{a+a\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(A-B+C)\,\text{ArcTanh}\left[\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}-\frac{(8\,A-14\,B+9\,C)\,\text{ArcTanh}\left[\sqrt{2}\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,\sqrt{2}\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+$$

$$\frac{C\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(6\,B-C)\,\text{Sin}[c+d\,x]}{12\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}+\frac{(8\,A-2\,B+7\,C)\,\text{Sin}[c+d\,x]}{8\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{48\,a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])}\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a\,(1+\text{Sec}[c+d\,x])}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-6\,\sqrt{2}\,(8\,A-2\,B+7\,C)\,\text{ArcTan}\left[\frac{\sqrt{-1+\text{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\text{Cos}[c+d\,x]}\,\text{Csc}[c+d\,x]+\right.$$

$$\frac{1}{\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}}\,3\,(8\,A-14\,B+9\,C)\,\left(4\,\text{Log}\left[\sqrt{\text{Cos}[c+d\,x]}\,(1+\text{Cos}[c+d\,x])\right]-\right.$$

$$\sqrt{2}\,\text{Log}\left[(1+\text{Cos}[c+d\,x])^2\right]-4\,\text{Log}\left[2\left(1+\text{Cos}[c+d\,x]+\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]+$$

$$\left.\sqrt{2}\,\text{Log}\left[4\left(5+4\,\text{Cos}[c+d\,x]-\text{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\text{Sin}[c+d\,x]^2}\right)\right]\right)\text{Sin}[c+d\,x]+$$

$$\left.2\,(24\,A-6\,B+37\,C+4\,(6\,B-C)\,\text{Cos}[c+d\,x]+3\,(8\,A-2\,B+7\,C)\,\text{Cos}[2\,(c+d\,x)])\,\text{Sec}[c+d\,x]^3\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{(3\,A+B-5\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\left(\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{(1+\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left.\left(\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^2\left(-A\,\mathrm{Sin}\left[\frac{c}{2}\right]+B\,\mathrm{Sin}\left[\frac{c}{2}\right]-C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{2\,d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{d\,x}{2}\right]^3\left(-A\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+B\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]-C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]\right)}{2\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}\right)+$$

$$\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}[c+d\,x]^2\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,(3\,A+B-C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{2-2\,\mathrm{Cos}[c+d\,x]^2}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}-\right.$$

$$\frac{1}{d\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}}\,2\,C\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}+\mathrm{Cos}[c+d\,x]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\left(3+2\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[c+d\,x]^2+2\,\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\right)\right]\right)\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{(A-5\,B+9\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{\sqrt{2}\,(2\,B-3\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(A-B+3\,C)\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}\,\mathrm{Cos}[c+d\,x]^{5/2}\,(1+\mathrm{Sec}[c+d\,x])^2$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\sqrt{2}\,(A-B+3\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c+d\,x]+\right.$$

$$\frac{1}{\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}}\,(2\,B-3\,C)\,\left(-4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]+\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[4\left(5+4\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]+$$

$$\left.(2\,C+(A-B+3\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$-\frac{(5\,A-9\,B+13\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(8\,A-12\,B+19\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{2}\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{(A-B+2\,C)\,\mathrm{Sin}[c+d\,x]}{2\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(2\,A-6\,B+7\,C)\,\mathrm{Sin}[c+d\,x]}{4\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{8\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{3/2}}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,(1+\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(2\,\sqrt{2}\,(2\,A-6\,B+7\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c+d\,x]+\frac{1}{\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}}\right.$$

$$(8\,A-12\,B+19\,C)\,\left(-4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]+\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]-$$

$$\left.\sqrt{2}\,\mathrm{Log}\left[4\left(5+4\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[2\,(c+d\,x)]+4\,\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]-$$

$$\left.(2\,A-6\,B+3\,C+(-8\,B+6\,C)\,\mathrm{Cos}[c+d\,x]+(2\,A-6\,B+7\,C)\,\mathrm{Cos}[2\,(c+d\,x)])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{(5\,A+3\,B-43\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{16\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,\sqrt{2}\,C\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+\frac{(5\,A+3\,B-11\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{32\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a\,(1+\mathrm{Sec}[c+d\,x]))^{5/2}}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,(1+\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-2\sqrt{2}\,(5\,A+3\,B-11\,C)\right.$$

$$\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+d\,x]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c+d\,x]+\left(32\,C\left(-4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Cos}[c+d\,x])\right]+\right.\right.$$

$$\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+d\,x])^2\right]+4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+d\,x]+\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]-$$

$$\left.\left.\sqrt{2}\,\mathrm{Log}\left[4\left(5+4\,\mathrm{Cos}[c+d\,x]-\mathrm{Cos}[2\,(c+d\,x)]+4\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)\right]\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left(\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sin}[c+d\,x]^2}\right)+(A+7\,B-15\,C+(5\,A+3\,B-11\,C)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{(3\,A-43\,B+115\,C)\,\mathrm{ArcTanh}\left[\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{16\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\sqrt{2}\,(2\,B-5\,C)\,\mathrm{ArcTanh}\left[\sqrt{2}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]}{a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}-\frac{(A-B+C)\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{5/2}}+$$

$$\frac{(A+7\,B-15\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+a\,\mathrm{Sec}[c+d\,x])^{3/2}}+\frac{(3\,A-11\,B+35\,C)\,\mathrm{Sin}[c+d\,x]}{16\,a^2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{a+a\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\mathrm{Cos}[c+dx]^{5/2}\sqrt{(1+\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c+dx]}\;(1+\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{4\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Cos}\left[\frac{3c}{2}\right]\right)}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^4\left(A\,\mathrm{Sin}\left[\frac{c}{2}\right]-B\,\mathrm{Sin}\left[\frac{c}{2}\right]+C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{8\,d}+\right.$$

$$\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^2\left(3\,A\,\mathrm{Sin}\left[\frac{c}{2}\right]-11\,B\,\mathrm{Sin}\left[\frac{c}{2}\right]+19\,C\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{16\,d}-$$

$$\frac{2\,C\,\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]\mathrm{Sin}\left[\frac{dx}{2}\right]}{d}+\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^5\left(A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{8\,d}+$$

$$\left.\frac{\mathrm{Sec}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}+\frac{dx}{2}\right]^3\left(3\,A\,\mathrm{Sin}\left[\frac{dx}{2}\right]-11\,B\,\mathrm{Sin}\left[\frac{dx}{2}\right]+19\,C\,\mathrm{Sin}\left[\frac{dx}{2}\right]\right)}{16\,d}+\frac{2\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,\mathrm{Sin}[dx]}{d}\right)+$$

$$\frac{1}{16\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a\,(1+\mathrm{Sec}[c+dx]))^{5/2}}$$

$$\mathrm{Cos}[c+dx]^2\,(1+\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{2\,(3\,A-11\,B+35\,C)\,\mathrm{ArcTan}\left[\frac{\sqrt{-1+\mathrm{Cos}[c+dx]}}{\sqrt{2}}\right]\sqrt{-1+\mathrm{Cos}[c+dx]}\,\sqrt{\mathrm{Cos}[c+dx]}\,\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{d\sqrt{2-2\,\mathrm{Cos}[c+dx]^2}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}-\right.$$

$$\frac{1}{2\,d\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}}\,(32\,B-80\,C)\,\sqrt{\mathrm{Cos}[c+dx]}\,\left(-\sqrt{2}\,\mathrm{Log}\left[(1+\mathrm{Cos}[c+dx])^2\right]+\right.$$

$$4\,\mathrm{Log}\left[\sqrt{\mathrm{Cos}[c+dx]}+\mathrm{Cos}[c+dx]^{3/2}\right]-4\,\mathrm{Log}\left[2\left(1+\mathrm{Cos}[c+dx]+\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\right]+\sqrt{2}\,\mathrm{Log}\Big[$$

$$\left.\left.8\left(3+2\,\mathrm{Cos}[c+dx]-\mathrm{Cos}[c+dx]^2+2\sqrt{2}\,\sqrt{1+\mathrm{Cos}[c+dx]}\,\sqrt{1-\mathrm{Cos}[c+dx]^2}\right)\Big]\right)\sqrt{1+\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]\right)$$

Problems of the form $\mathbf{Sec[x]^m \left(A + B\,Sec[x] + C\,Sec[x]^2\right) (a + b\,Sec[x])^n}$ when $\mathbf{a^2 \neq b^2}$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]^4\,(a+b\,\text{Sec}[c+d\,x])^2,\ x,\ 6,\ 0\}$

$$\frac{3\,a\,b\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{4\,d}+\frac{2\left(5\,a^2+4\,b^2\right)\text{Tan}[c+d\,x]}{15\,d}+\frac{3\,a\,b\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{4\,d}+\frac{\left(5\,a^2+4\,b^2\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,b\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{2\,d}+\frac{b^2\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d}-\frac{3\,a\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{4\,d}+\frac{3\,a\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{4\,d}+\frac{a\,b}{8\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{3\,a\,b}{8\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{a\,b}{8\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}-\frac{3\,a\,b}{8\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{2\,a^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{8\,b^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a^2\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{4\,b^2\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{b^2\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d}$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^2,\ x,\ 5,\ 0\}$

$$\frac{\left(4\,a^2+3\,b^2\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{4\,a\,b\,\text{Tan}[c+d\,x]}{3\,d}+\frac{\left(4\,a^2+3\,b^2\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{2\,a\,b\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{b^2\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d}-\frac{a^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}-\frac{3\,b^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+\frac{a^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}+\frac{3\,b^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+\frac{b^2}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{a^2}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{3\,b^2}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{b^2}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}-\frac{a^2}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{3\,b^2}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{4\,a\,b\,\text{Tan}[c+d\,x]}{3\,d}+\frac{2\,a\,b\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2,\ x,\ 3,\ 0\}$

$$\frac{\left(2\,a^2+b^2\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{2\,a\,b\,\text{Tan}[c+d\,x]}{d}+\frac{b^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4d}\left(-2\left(2a^2+b^2\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+4a^2\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+2b^2\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+\frac{b^2}{\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}-\frac{b^2}{\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}+8ab\,\text{Tan}[c+dx]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\text{Sec}[c+dx])^2,\ x,\ 2,\ 0\right\}$$

$$a^2x+\frac{2ab\,\text{ArcTanh}[\text{Sin}[c+dx]]}{d}+\frac{b^2\,\text{Tan}[c+dx]}{d}$$

$$\frac{a\left(ac+adx-2b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+2b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+b^2\,\text{Tan}[c+dx]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+dx]\,(a+b\,\text{Sec}[c+dx])^2,\ x,\ 3,\ 0\right\}$$

$$2abx+\frac{b^2\,\text{ArcTanh}[\text{Sin}[c+dx]]}{d}+\frac{a^2\,\text{Sin}[c+dx]}{d}$$

$$\frac{b\left(2adx-b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]+b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+a^2\,\text{Sin}[c+dx]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+dx]^3\,(a+b\,\text{Sec}[c+dx])^3,\ x,\ 6,\ 0\right\}$$

$$\frac{a\left(4a^2+9b^2\right)\text{ArcTanh}[\text{Sin}[c+dx]]}{8d}+\frac{2b\left(15a^2+4b^2\right)\text{Tan}[c+dx]}{15d}+\frac{a\left(4a^2+9b^2\right)\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{8d}+\frac{b\left(15a^2+4b^2\right)\text{Sec}[c+dx]^2\,\text{Tan}[c+dx]}{15d}+\frac{11ab^2\,\text{Sec}[c+dx]^3\,\text{Tan}[c+dx]}{20d}+\frac{b^2\,\text{Sec}[c+dx]^3\,(a+b\,\text{Sec}[c+dx])\,\text{Tan}[c+dx]}{5d}$$

$$\frac{\left(-4a^3-9ab^2\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]}{8d}+\frac{\left(4a^3+9ab^2\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]}{8d}+$$

$$\frac{15ab^2+2b^3}{80d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^4}+\frac{60a^3+60a^2b+135ab^2+19b^3}{240d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}+$$

$$\frac{b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]}{20d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^5}+\frac{b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]}{20d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^5}+$$

$$\frac{-15ab^2-2b^3}{80d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^4}+\frac{-60a^3-60a^2b-135ab^2-19b^3}{240d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^2}+$$

$$\frac{2\left(15a^2b\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+4b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}{15d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}+\frac{2\left(15a^2b\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+4b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}{15d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)}+$$

$$\frac{60a^2b\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+19b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]}{120d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^3}+\frac{60a^2b\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+19b^3\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]}{120d\left(\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right)^3}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^3,\ x,\ 6,\ 0\}$$

$$\frac{3\,b\,\left(4\,a^2+b^2\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{a\,\left(2\,a^2+13\,b^2\right)\,\text{Tan}[c+d\,x]}{8\,d}+\frac{\left(2\,a^2+3\,b^2\right)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{8\,d}+\frac{a\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{4\,d}+\frac{(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{4\,d}-\frac{3\,\left(4\,a^2\,b+b^3\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{3\,\left(4\,a^2\,b+b^3\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{8\,d}+\frac{b^3}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{12\,a^2\,b+4\,a\,b^2+3\,b^3}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{a\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{b^3}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{a\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{-12\,a^2\,b-4\,a\,b^2-3\,b^3}{16\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{a^3\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{a^3\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^3,\ x,\ 5,\ 0\}$$

$$\frac{a\,\left(2\,a^2+3\,b^2\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{b\,\left(11\,a^2+4\,b^2\right)\,\text{Tan}[c+d\,x]}{6\,d}+\frac{5\,a\,b\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{b\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d}\left(-6\,a\,\left(2\,a^2+3\,b^2\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+12\,a^3\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+18\,a\,b^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{9\,a\,b^2}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{b^3}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{9\,a\,b^2}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{b^3}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+2\,b\,\left(9\,a^2+4\,b^2-b^2\,\text{Cos}[c+d\,x]+\left(9\,a^2+2\,b^2\right)\,\text{Cos}[2\,(c+d\,x)]\right)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b\,\text{Sec}[c+d\,x])^3,\ x,\ 4,\ 0\}$$

$$a^3\,x+\frac{b\,\left(6\,a^2+b^2\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{5\,a\,b^2\,\text{Tan}[c+d\,x]}{2\,d}+\frac{b^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}\left(4\,a^3\,c+4\,a^3\,d\,x-2\,b\,\left(6\,a^2+b^2\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$12\,a^2\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+2\,b^3\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.\frac{b^3}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{b^3}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+12\,a\,b^2\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^4,\ x,\ 7,\ 0\right\}$$

$$\frac{a\,b\,\left(4\,a^2+3\,b^2\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{\left(6\,a^4+83\,a^2\,b^2+16\,b^4\right)\,\text{Tan}[c+d\,x]}{30\,d}+\frac{a\,\left(6\,a^2+29\,b^2\right)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{30\,d}+$$
$$\frac{\left(3\,a^2+4\,b^2\right)\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{5\,d}+\frac{(a+b\,\text{Sec}[c+d\,x])^4\,\text{Tan}[c+d\,x]}{5\,d}$$
$$\frac{\left(-4\,a^3\,b-3\,a\,b^3\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{\left(4\,a^3\,b+3\,a\,b^3\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{2\,d}+\frac{10\,a\,b^3+b^4}{40\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+$$
$$\frac{240\,a^3\,b+120\,a^2\,b^2+180\,a\,b^3+19\,b^4}{240\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{20\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^5}+$$
$$\frac{b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{20\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^5}+\frac{-10\,a\,b^3-b^4}{40\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+$$
$$\frac{-240\,a^3\,b-120\,a^2\,b^2-180\,a\,b^3-19\,b^4}{240\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{15\,a^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+60\,a^2\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+8\,b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$
$$\frac{15\,a^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+60\,a^2\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+8\,b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$
$$\frac{120\,a^2\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+19\,b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{120\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{120\,a^2\,b^2\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+19\,b^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{120\,d\,\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^4,\ x,\ 6,\ 0\right\}$$

$$\frac{\left(8\,a^4+24\,a^2\,b^2+3\,b^4\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{5\,a\,b\,\left(10\,a^2+11\,b^2\right)\,\text{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{b\,\left(26\,a^2+9\,b^2\right)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{24\,d}+\frac{7\,a\,b\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{b\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\frac{\left(-8 a^4-24 a^2 b^2-3 b^4\right) \text{Cos}[c+d x]^4 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right](a+b \text{Sec}[c+d x])^4}{8 d (b+a \text{Cos}[c+d x])^4}+$$
$$\frac{\left(8 a^4+24 a^2 b^2+3 b^4\right) \text{Cos}[c+d x]^4 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right](a+b \text{Sec}[c+d x])^4}{8 d (b+a \text{Cos}[c+d x])^4}+$$
$$\frac{b^4 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4}{16 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+$$
$$\frac{\left(72 a^2 b^2+16 a b^3+9 b^4\right) \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4}{48 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{2 a b^3 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4 \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{3 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}-\frac{b^4 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4}{16 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+$$
$$\frac{2 a b^3 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4 \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{3 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}+\frac{\left(-72 a^2 b^2-16 a b^3-9 b^4\right) \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4}{48 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{4 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4 \left(3 a^3 b \text{Sin}\left[\frac{1}{2}(c+d x)\right]+2 a b^3 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}{3 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}+$$
$$\frac{4 \text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4 \left(3 a^3 b \text{Sin}\left[\frac{1}{2}(c+d x)\right]+2 a b^3 \text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}{3 d (b+a \text{Cos}[c+d x])^4 \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b \text{Sec}[c+d x])^4, x, 5, 0\}$$

$$a^4 x+\frac{2 a b \left(2 a^2+b^2\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{b^2 \left(13 a^2+2 b^2\right) \text{Tan}[c+d x]}{3 d}+$$
$$\frac{4 a b^2 (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{3 d}+\frac{b^2 (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{3 d}$$

$$\frac{1}{12 d}\left(12 a^4 c+12 a^4 d x-24 a b \left(2 a^2+b^2\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+48 a^3 b \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$24 a b^3 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\frac{12 a b^3}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{b^4}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{12 a b^3}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b^4}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\left.2 b^2 \left(-b^2 \text{Cos}[c+d x]+2 \left(9 a^2+2 b^2+\left(9 a^2+b^2\right) \text{Cos}[2 (c+d x)]\right)\right) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b \text{Sec}[c+d x])^5, x, 6, 0\}$$

$$a^5 x + \frac{b\left(40 a^4 + 40 a^2 b^2 + 3 b^4\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} + \frac{a b^2 \left(154 a^2 + 71 b^2\right) \text{Tan}[c + d x]}{24 d} +$$

$$\frac{b^2 \left(58 a^2 + 9 b^2\right) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{24 d} + \frac{11 a b^2 (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{12 d} + \frac{b^2 (a + b \text{Sec}[c + d x])^3 \text{Tan}[c + d x]}{4 d}$$

$$\frac{a^5 (c + d x) \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5}{d (b + a \text{Cos}[c + d x])^5} +$$

$$\frac{\left(-40 a^4 b - 40 a^2 b^3 - 3 b^5\right) \text{Cos}[c + d x]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] (a + b \text{Sec}[c + d x])^5}{8 d (b + a \text{Cos}[c + d x])^5} +$$

$$\frac{\left(40 a^4 b + 40 a^2 b^3 + 3 b^5\right) \text{Cos}[c + d x]^5 \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] (a + b \text{Sec}[c + d x])^5}{8 d (b + a \text{Cos}[c + d x])^5} +$$

$$\frac{b^5 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5}{16 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^4} +$$

$$\frac{\left(120 a^2 b^3 + 20 a b^4 + 9 b^5\right) \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5}{48 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} +$$

$$\frac{5 a b^4 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5 \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{6 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^3} - \frac{b^5 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5}{16 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^4} +$$

$$\frac{5 a b^4 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5 \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{6 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^3} + \frac{\left(-120 a^2 b^3 - 20 a b^4 - 9 b^5\right) \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5}{48 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} +$$

$$\frac{10 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5 \left(3 a^3 b^2 \text{Sin}\left[\frac{1}{2} (c + d x)\right] + a b^4 \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)}{3 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)} +$$

$$\frac{10 \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^5 \left(3 a^3 b^2 \text{Sin}\left[\frac{1}{2} (c + d x)\right] + a b^4 \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)}{3 d (b + a \text{Cos}[c + d x])^5 \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c + d x]^4}{a + b \text{Sec}[c + d x]}, x, 6, 0\right\}$$

$$\frac{\left(2 a^2 + b^2\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 b^3 d} + \frac{2 a^3 \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3 \sqrt{a^2 - b^2}\, d} - \frac{a \text{Tan}[c + d x]}{b^2 d} + \frac{\text{Sec}[c + d x] \text{Tan}[c + d x]}{2 b d}$$

$$\frac{1}{4 b^3 d}\left(\frac{8 a^3 \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\sqrt{a^2-b^2}}-4 a^2 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-2 b^2 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+4 a^2 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+2 b^2 \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\frac{b^2}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b^2}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-4 a b \text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{5+3 \text{Sec}[c+d x]}, x, 2, 0\right\}$$

$$\frac{x}{5}-\frac{3 \text{ArcTanh}\left[\frac{1}{2} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right]}{10 d}$$

$$\frac{4(c+d x)+3 \text{Log}\left[2 \text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-3 \text{Log}\left[2 \text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{20 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{(5+3 \text{Sec}[c+d x])^4}, x, 5, 0\right\}$$

$$\frac{x}{625}-\frac{278151 \text{ArcTanh}\left[\frac{1}{2} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right]}{10240000 d}+\frac{3 \text{Tan}[c+d x]}{80 d (5+3 \text{Sec}[c+d x])^3}+\frac{519 \text{Tan}[c+d x]}{12800 d (5+3 \text{Sec}[c+d x])^2}+\frac{38733 \text{Tan}[c+d x]}{1024000 d (5+3 \text{Sec}[c+d x])}$$

$$\frac{(c+d\,x)\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4}{625\,d\,(5+3\,\text{Sec}[c+d\,x])^4}+\frac{278151\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Log}\left[2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Sec}[c+d\,x]^4}{20480000\,d\,(5+3\,\text{Sec}[c+d\,x])^4}-$$

$$\frac{278151\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Log}\left[2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,\text{Sec}[c+d\,x]^4}{20480000\,d\,(5+3\,\text{Sec}[c+d\,x])^4}-$$

$$\frac{27\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4}{12800\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{27\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{102400\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+$$

$$\frac{48573\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{4096000\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{27\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{102400\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+$$

$$\frac{27\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4}{12800\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{48573\,(3+5\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{4096000\,d\,(5+3\,\text{Sec}[c+d\,x])^4\,\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^4\,\sqrt{a+b\,\text{Sec}[c+d\,x]},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,a\,(a+b)\,\left(8\,a^2+19\,b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(8\,a^3+2\,a^2\,b+19\,a\,b^2+25\,b^3\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,\left(8\,a^2+19\,b^2\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^3\,d}-\frac{2\,\left(4\,a^2-25\,b^2\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^2\,d}+$$

$$\frac{2\,a\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b\,d}+\frac{2\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$-\frac{1}{105\,b^3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$2\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(2\,a\,\left(8\,a^3+8\,a^2\,b+19\,a\,b^2+19\,b^3\right)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(8\,a^3+2\,a^2\,b+19\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.a\,\left(8\,a^2+19\,b^2\right)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(\frac{2\,a\,\left(8\,a^2+19\,b^2\right)\,\mathrm{Sin}[c+d\,x]}{105\,b^3}+\frac{2\,\mathrm{Sec}[c+d\,x]\,\left(-4\,a^2\,\mathrm{Sin}[c+d\,x]+25\,b^2\,\mathrm{Sin}[c+d\,x]\right)}{105\,b^2}+\frac{2\,a\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{35\,b}+\frac{2}{7}\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]\right)}{d}$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(a+b)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(a+b)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\frac{1}{d}\,2\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(\mathrm{Sin}[c+d\,x]-\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\left(\frac{(a+b)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\left(\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+\right.$$

$$\left.\left.(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]},\,x,\,8,\,0\right\}$$

$$\frac{b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a-b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2-b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{b\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a\,d}$$

$$\frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[2\,(c+d\,x)]}{4\,d}+$$

$$\left(\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(a\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.\right.$$

$$b^2\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+a\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$b^2\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-8\,i\,a^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-8\,i\,a^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-i\,(a-b)\,b\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,\left(2\,a^2-a\,b-b^2\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\left.\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\right)\Bigg/$$

$$\left(4\,a\,\sqrt{\frac{-a+b}{a+b}}\;d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\;\sqrt{\mathrm{Sec}[c+d\,x]}\;\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right.$$

$$\left.\sqrt{\frac{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\{\text{Sec}[c+d\,x]^4\,(a+b\,\text{Sec}[c+d\,x])^{3/2},\ x,\ 9,\ 0\}$$

$$-\frac{2\,(a+b)\,\left(8\,a^4+33\,a^2\,b^2+147\,b^4\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{315\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(8\,a^4+2\,a^3\,b+33\,a^2\,b^2+186\,a\,b^3+147\,b^4\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{315\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(8\,a^4+33\,a^2\,b^2+147\,b^4\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^3\,d}-$$

$$\frac{8\,a\,\left(a^2-22\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^2\,d}+\frac{2\,\left(3\,a^2+49\,b^2\right)\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b\,d}+$$

$$\frac{20\,a\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{63\,d}+\frac{2\,b\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])}\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(\frac{2\,\left(8\,a^4+33\,a^2\,b^2+147\,b^4\right)\text{Sin}[c+d\,x]}{315\,b^3}+\frac{2\,\text{Sec}[c+d\,x]^2\,\left(3\,a^2\,\text{Sin}[c+d\,x]+49\,b^2\,\text{Sin}[c+d\,x]\right)}{315\,b}+\right.$$

$$\left.\frac{8\,\text{Sec}[c+d\,x]\,\left(-a^3\,\text{Sin}[c+d\,x]+22\,a\,b^2\,\text{Sin}[c+d\,x]\right)}{315\,b^2}+\frac{20}{63}\,a\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]+\frac{2}{9}\,b\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]\right)-$$

$$\left(2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(-\frac{11\,a^2}{105\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{8\,a^4}{315\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{7\,b^2}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{8\,a^5\,\sqrt{\text{Sec}[c+d\,x]}}{315\,b^3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{31\,a^3\,\sqrt{\text{Sec}[c+d\,x]}}{315\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{13\,a\,b\,\sqrt{\text{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\left.\frac{8\,a^5\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{315\,b^3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{11\,a^3\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{105\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{7\,a\,b\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)$$

$$\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(2\,\left(8\,a^5+8\,a^4\,b+33\,a^3\,b^2+33\,a^2\,b^3+147\,a\,b^4+147\,b^5\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b\left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+\left(8 a^4+33 a^2 b^2+147 b^4\right)\text{Cos}[c+d x]$$

$$(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/\Bigg(315 b^3 d\,(b+a\,\text{Cos}[c+d x])^2\,\text{Sec}[c+d x]^{3/2}$$

$$\Bigg(\frac{1}{315 b^3\sqrt{b+a\,\text{Cos}[c+d x]}}\text{Cos}\left[\frac{1}{2}(c+d x)\right]\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]$$

$$\Bigg(2\left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b\left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(8 a^4+33 a^2 b^2+147 b^4\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)-$$

$$\frac{1}{315 b^3\,(b+a\,\text{Cos}[c+d x])^{3/2}}a\,\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}$$

$$\text{Sin}[c+d x]\Bigg(2\left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b\left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(8 a^4+33 a^2 b^2+147 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Tan}\left[\frac{1}{2} (c+d x)\right]\Bigg) -$$

$$\frac{1}{315 b^3 \sqrt{b+a \text{Cos}[c+d x]}} 2 \text{Cos}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{\text{Sec}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{\text{Cos}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sec}[c+d x]}$$

$$\Bigg(\frac{1}{2} \left(8 a^4+33 a^2 b^2+147 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^4 + \frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}$$

$$\left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2} - \frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right) -$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} b \left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2} - \frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right) +$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}} \left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])} + \frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])^2}\right) -$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}} b \left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])} + \frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])^2}\right) -$$

$$a \left(8 a^4+33 a^2 b^2+147 b^4\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2} (c+d x)\right] -$$

$$\left(8 a^4+33 a^2 b^2+147 b^4\right) (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2} (c+d x)\right] +$$

$$\left(8 a^4+33 a^2 b^2+147 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2 -$$

$$\frac{b \left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{a+b}}} +$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}} \left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\left.\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{a+b}}\right) -$$

$$\frac{1}{315 b^3 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Cos}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sec}[c+d x]}} \text{Cos}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{\text{Sec}\left[\frac{1}{2} (c+d x)\right]^2}$$

$$\left(2 \left(8 a^5+8 a^4 b+33 a^3 b^2+33 a^2 b^3+147 a b^4+147 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] - 2 b \left(8 a^4+2 a^3 b+33 a^2 b^2+186 a b^3+147 b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] +$$

$$\left.\left(8 a^4+33 a^2 b^2+147 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Tan}\left[\frac{1}{2} (c+d x)\right]\right)$$

$$\left.\left.\left(-\text{Cos}\left[\frac{1}{2} (c+d x)\right] \text{Sec}[c+d x] \text{Sin}\left[\frac{1}{2} (c+d x)\right] + \text{Cos}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sec}[c+d x] \text{Tan}[c+d x]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d x]^3 (a+b \text{Sec}[c+d x])^{3/2}, x, 8, 0\right\}$$

$$\frac{4\,a\,(a+b)\,\left(3\,a^2-41\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{105\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(6\,a^3-51\,a^2\,b-82\,a\,b^2-25\,b^3\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{105\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{4\,a\,\left(3\,a^2-41\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^2\,d}+\frac{2\,\left(3\,a^2+25\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b\,d}+$$

$$\frac{16\,a\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,d}+\frac{2\,b\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])}$$

$$\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(-\frac{4\,a\,\left(3\,a^2-41\,b^2\right)\text{Sin}[c+d\,x]}{105\,b^2}+\frac{2\,\text{Sec}[c+d\,x]\,\left(3\,a^2\,\text{Sin}[c+d\,x]+25\,b^2\,\text{Sin}[c+d\,x]\right)}{105\,b}+\right.$$

$$\left.\frac{16}{35}\,a\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]+\frac{2}{7}\,b\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]\right)+$$

$$\left(4\left(\frac{2\,a^3}{35\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{82\,a\,b}{105\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{31\,a^2\,\sqrt{\text{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,a^4\,\sqrt{\text{Sec}[c+d\,x]}}{35\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{5\,b^2\,\sqrt{\text{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{82\,a^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left.\frac{2\,a^4\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{35\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(2\,a\,\left(3\,a^3+3\,a^2\,b-41\,a\,b^2-41\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+b\,\left(-6\,a^3+51\,a^2\,b+82\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.a\,\left(3\,a^2-41\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(105\, b^2\, d\, (b + a \operatorname{Cos}[c + d x])^2 \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2}\, \operatorname{Sec}[c + d x]^{3/2} \left(\frac{1}{105\, b^2\, (b + a \operatorname{Cos}[c + d x])^{3/2} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2}}\right.\right.$$

$$2\, a \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c + d x)\right]^2 \operatorname{Sec}[c + d x]}\, \operatorname{Sin}[c + d x] \left(2\, a\, \left(3\, a^3 + 3\, a^2\, b - 41\, a\, b^2 - 41\, b^3\right) \sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}}\right.$$

$$\sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b)\, (1 + \operatorname{Cos}[c + d x])}}\, \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right], \frac{a - b}{a + b}\right] + b\, \left(-6\, a^3 + 51\, a^2\, b + 82\, a\, b^2 + 25\, b^3\right)$$

$$\sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}} \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b)\, (1 + \operatorname{Cos}[c + d x])}}\, \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right], \frac{a - b}{a + b}\right] +$$

$$\left.a\, \left(3\, a^2 - 41\, b^2\right) \operatorname{Cos}[c + d x]\, (b + a \operatorname{Cos}[c + d x])\, \operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right) -$$

$$\frac{1}{105\, b^2 \sqrt{b + a \operatorname{Cos}[c + d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2}}\, 2 \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c + d x)\right]^2 \operatorname{Sec}[c + d x]}\, \operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]$$

$$\left(2\, a\, \left(3\, a^3 + 3\, a^2\, b - 41\, a\, b^2 - 41\, b^3\right) \sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}} \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b)\, (1 + \operatorname{Cos}[c + d x])}}\right.$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right], \frac{a - b}{a + b}\right] + b\, \left(-6\, a^3 + 51\, a^2\, b + 82\, a\, b^2 + 25\, b^3\right)$$

$$\sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}} \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b)\, (1 + \operatorname{Cos}[c + d x])}}\, \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right], \frac{a - b}{a + b}\right] +$$

$$\left.a\, \left(3\, a^2 - 41\, b^2\right) \operatorname{Cos}[c + d x]\, (b + a \operatorname{Cos}[c + d x])\, \operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c + d x)\right]\right) +$$

$$\frac{1}{105\, b^2 \sqrt{b + a \operatorname{Cos}[c + d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c + d x)\right]^2}}\, 4 \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c + d x)\right]^2 \operatorname{Sec}[c + d x]}$$

$$\Bigg(\frac{1}{2} a \left(3 a^2-41 b^2\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} a \left(3 a^3+3 a^2 b-41 a b^2-41 b^3\right)$$

$$\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\right.$$

$$\left.\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+\frac{1}{2\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} b \left(-6 a^3+51 a^2 b+82 a b^2+25 b^3\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} a \left(3 a^3+3 a^2 b-41 a b^2-41 b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+\frac{1}{2\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}$$

$$b \left(-6 a^3+51 a^2 b+82 a b^2+25 b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-a^2 \left(3 a^2-41 b^2\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]-a \left(3 a^2-41 b^2\right)(b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$a \left(3 a^2-41 b^2\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{b \left(-6 a^3+51 a^2 b+82 a b^2+25 b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{a\left(3a^3+3a^2b-41ab^2-41b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)+$$

$$\frac{1}{105\,b^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}}$$

$$2\Bigg(2a\left(3a^3+3a^2b-41ab^2-41b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+b\left(-6a^3+51a^2b+82ab^2+25b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$a\left(3a^2-41b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+dx]\,(a+b\,\text{Sec}[c+dx])^{3/2},\ x,\ 6,\ 0\right\}$$

$$-\frac{8a(a+b)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(3a^2+4ab+b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{8a\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3d}+\frac{2b\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3d}$$

$$\frac{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(\frac{8}{3}\,a\,\text{Sin}[c+d\,x]+\frac{2}{3}\,b\,\text{Tan}[c+d\,x]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])}-$$

$$\left(4\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\left(-\frac{4\,a\,b}{3\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{a^2\sqrt{\text{Sec}[c+d\,x]}}{3\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\left.\frac{b^2\sqrt{\text{Sec}[c+d\,x]}}{3\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{4\,a^2\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{3\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(4\,a\,(a+b)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-\right.$$

$$\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left.2\,a\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(3\,d\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,(b+a\,\text{Cos}[c+d\,x])^2\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\right.$$

$$\left(\left(4\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\left(4\,a\,(a+b)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\right.\right.\right.$$

$$\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\right.$$

$$\left.\left.\left.\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\,a\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(3\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\right)-\frac{1}{3\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}}$$

$$4\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]\left(a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4+\right.$$

$$\frac{2\,a\,(a+b)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}-$$

$$\frac{\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{2\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{2\,a\,(a+b)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}-$$

$$\frac{\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)}{2\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$-2\,a^2\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$2\,a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-\frac{\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{2\,a\,(a+b)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)+$$

$$\left(2\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]^2\left(4\,a\,(a+b)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.2\,a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Tan}[c+d\,x]\right)\Big/$$

$$\left(3\,\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)-\left(2\,a\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left(4\,a\,(a+b)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.2\,a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Tan}[c+d\,x]\right)\Big/$$

$$\left(3\,\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\right)+\frac{1}{3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}$$

$$2\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\frac{1}{1+\mathrm{Cos}[c+d\,x]}}$$

$$\left(4\,a\,(a+b)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$\left(3\,a^2+4\,a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.2\,a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\mathrm{Tan}[c+d\,x]-\left(4\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\mathrm{Sec}[c+d\,x]\,\left(4\,a\,(a+b)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$\left(3 a^2+4 a b+b^2\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+$$

$$2 a \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg) \text{Tan}[c+d x]\Bigg) \Bigg/$$

$$\left(3 \sqrt{\frac{1}{1+\text{Cos}[c+d x]}} \sqrt{b+a \text{Cos}[c+d x]} \sqrt{1+\text{Sec}[c+d x]}\right)\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$\left\{(a+b \text{Sec}[c+d x])^{3/2}, x, 7, 0\right\}$

$$-\frac{2 b (a+b) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{2\left(a^2-2 a b-b^2\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{4 a^2 \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1, \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{d}$$

$$\frac{2\,b\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{d\,(b+a\,\text{Cos}[c+d\,x])}+$$

$$\left(2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(a\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-\right.\right.$$

$$2\,a\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+a\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$2\,i\,a^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+2\,i\,a^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,b\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-i\,(a-b)^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\left.\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\right)\Big/$$

$$\left(\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Sec}[c+d\,x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right.$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2},\,x,\,8,\,0\}$$

$$\frac{5\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2\,a^2-a\,b+4\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2+3\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{a\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{5\,b\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,d}$$

$$\frac{a\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[2\,(c+d\,x)]}{4\,d\,(b+a\,\text{Cos}[c+d\,x])}-$$

$$\Bigg(\Bigg(a+b\,\text{Sec}[c+d\,x])^{3/2}\Bigg(5\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+5\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$10\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+5\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-5\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$8\,i\,a^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-6\,i\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$8\,i\,a^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$5\,i\,(a-b)\,b\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,\left(2\,a^2-a\,b-b^2\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg)\Bigg/$$

$$\left(4\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right.$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d x]^4\,(a+b\,\text{Sec}[c+d x])^{5/2},\ x,\ 10,\ 0\right\}$$

$$-\frac{2\,a\,(a+b)\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{693\,b^3\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\left(2\left(8\,a^5+2\,a^4\,b+51\,a^3\,b^2+663\,a^2\,b^3+741\,a\,b^4+135\,b^5\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(693\,b^2\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{2\,a\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{693\,b^3\,d}-\frac{2\left(4\,a^4-205\,a^2\,b^2-135\,b^4\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{693\,b^2\,d}+$$

$$\frac{2\,a\left(3\,a^2+229\,b^2\right)\text{Sec}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{693\,b\,d}+$$

$$\frac{2\left(113\,a^2+81\,b^2\right)\text{Sec}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{693\,d}+$$

$$\frac{46\,a\,b\,\text{Sec}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{99\,d}+\frac{2\,b^2\,\text{Sec}[c+d x]^4\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{11\,d}$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}\,\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\,a\,\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\,\mathrm{Sin}[c+d\,x]}{693\,b^3}+\right.$$

$$\frac{2}{693}\,\mathrm{Sec}[c+d\,x]^3\,\left(113\,a^2\,\mathrm{Sin}[c+d\,x]+81\,b^2\,\mathrm{Sin}[c+d\,x]\right)+\frac{2\,\mathrm{Sec}[c+d\,x]^2\,\left(3\,a^3\,\mathrm{Sin}[c+d\,x]+229\,a\,b^2\,\mathrm{Sin}[c+d\,x]\right)}{693\,b}+$$

$$\frac{2\,\mathrm{Sec}[c+d\,x]\,\left(-4\,a^4\,\mathrm{Sin}[c+d\,x]+205\,a^2\,b^2\,\mathrm{Sin}[c+d\,x]+135\,b^4\,\mathrm{Sin}[c+d\,x]\right)}{693\,b^2}+$$

$$\left.\frac{46}{99}\,a\,b\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]+\frac{2}{11}\,b^2\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]\right)-$$

$$\left(2\left(-\frac{17\,a^3}{231\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^5}{693\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{247\,a\,b^2}{231\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^6\,\sqrt{\mathrm{Sec}[c+d\,x]}}{693\,b^3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{7\,a^4\,\sqrt{\mathrm{Sec}[c+d\,x]}}{99\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{26\,a^2\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{231\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{15\,b^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{77\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{8\,a^6\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{693\,b^3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{17\,a^4\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{231\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{247\,a^2\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{231\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(2\,a\,\left(8\,a^5+8\,a^4\,b+51\,a^3\,b^2+51\,a^2\,b^3+741\,a\,b^4+741\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(8\,a^5+2\,a^4\,b+51\,a^3\,b^2+663\,a^2\,b^3+741\,a\,b^4+135\,b^5\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.a\,\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(693\,b^3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\left(-\frac{1}{693\,b^3\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]\right.$$

$$\left(2\,a\,\left(8\,a^5+8\,a^4\,b+51\,a^3\,b^2+51\,a^2\,b^3+741\,a\,b^4+741\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(8\,a^5+2\,a^4\,b+51\,a^3\,b^2+663\,a^2\,b^3+741\,a\,b^4+135\,b^5\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.a\,\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{693\,b^3\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(2\,a\,\left(8\,a^5+8\,a^4\,b+51\,a^3\,b^2+51\,a^2\,b^3+741\,a\,b^4+741\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(8\,a^5+2\,a^4\,b+51\,a^3\,b^2+663\,a^2\,b^3+741\,a\,b^4+135\,b^5\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.a\,\left(8\,a^4+51\,a^2\,b^2+741\,b^4\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{693\,b^3\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\left(\frac{1}{2} a \left(8 a^4+51 a^2 b^2+741 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}\right.$$

$$a \left(8 a^5+8 a^4 b+51 a^3 b^2+51 a^2 b^3+741 a b^4+741 b^5\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)-$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} b \left(8 a^5+2 a^4 b+51 a^3 b^2+663 a^2 b^3+741 a b^4+135 b^5\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}} a \left(8 a^5+8 a^4 b+51 a^3 b^2+51 a^2 b^3+741 a b^4+741 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])^2}\right)-$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}}} b \left(8 a^5+2 a^4 b+51 a^3 b^2+663 a^2 b^3+741 a b^4+135 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])^2}\right)-$$

$$a^2 \left(8 a^4+51 a^2 b^2+741 b^4\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2} (c+d x)\right]-$$

$$a \left(8 a^4+51 a^2 b^2+741 b^4\right) (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2} (c+d x)\right]+$$

$$a \left(8 a^4+51 a^2 b^2+741 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2-$$

$$\frac{b \left(8 a^5+2 a^4 b+51 a^3 b^2+663 a^2 b^3+741 a b^4+135 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b) (1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2} (c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} a \left(8 a^5+8 a^4 b+51 a^3 b^2+51 a^2 b^3+741 a b^4+741 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\left.\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) -$$

$$\frac{1}{693 b^3 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}}$$

$$\left(2 a \left(8 a^5+8 a^4 b+51 a^3 b^2+51 a^2 b^3+741 a b^4+741 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] - 2 b \left(8 a^5+2 a^4 b+51 a^3 b^2+663 a^2 b^3+741 a b^4+135 b^5\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] +$$

$$\left.a \left(8 a^4+51 a^2 b^2+741 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \text{Sin}\left[\frac{1}{2}(c+d x)\right]+\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x] \text{Tan}[c+d x]\right)\right)$$

Incorrect antiderivative:

$\{\text{Sec}[c+d x]^3 (a+b \text{Sec}[c+d x])^{5/2}, x, 9, 0\}$

$$\frac{2 (a+b) \left(10 a^4-279 a^2 b^2-147 b^4\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{315 b^2 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}} -$$

$$\left(2 \left(10 a^4-155 a^3 b-279 a^2 b^2-261 a b^3-147 b^4\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]\right) \Big/ \left(315 b d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right) -$$

$$\frac{2 \left(10 a^4-279 a^2 b^2-147 b^4\right) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{315 b^2 d} + \frac{2 a \left(5 a^2+163 b^2\right) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{315 b d} +$$

$$\frac{2 \left(75 a^2+49 b^2\right) \text{Sec}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{315 d} +$$

$$\frac{38 a b \text{Sec}[c+d x]^2 \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{63 d} + \frac{2 b^2 \text{Sec}[c+d x]^3 \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{9 d}$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}\,\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{2\left(-10\,a^4+279\,a^2\,b^2+147\,b^4\right)\mathrm{Sin}[c+d\,x]}{315\,b^2}+\frac{2}{315}\,\mathrm{Sec}[c+d\,x]^2\left(75\,a^2\,\mathrm{Sin}[c+d\,x]+49\,b^2\,\mathrm{Sin}[c+d\,x]\right)+\right.$$

$$\left.\frac{2\,\mathrm{Sec}[c+d\,x]\left(5\,a^3\,\mathrm{Sin}[c+d\,x]+163\,a\,b^2\,\mathrm{Sin}[c+d\,x]\right)}{315\,b}+\frac{38}{63}\,a\,b\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]+\frac{2}{9}\,b^2\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]\right)+$$

$$\left(2\left(\frac{2\,a^4}{63\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{31\,a^2\,b}{35\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{7\,b^3}{15\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{124\,a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{315\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^5\,\sqrt{\mathrm{Sec}[c+d\,x]}}{63\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{38\,a\,b^2\,\sqrt{\mathrm{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{31\,a^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{35\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^5\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{63\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{7\,a\,b^2\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)$$

$$\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(2\left(10\,a^5+10\,a^4\,b-279\,a^3\,b^2-279\,a^2\,b^3-147\,a\,b^4-147\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\,b\left(-10\,a^4+155\,a^3\,b+279\,a^2\,b^2+261\,a\,b^3+147\,b^4\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left.\left(10\,a^4-279\,a^2\,b^2-147\,b^4\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(315\,b^2\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\left(\frac{1}{315\,b^2\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]\right.$$

$$\left(2\left(10a^5+10a^4b-279a^3b^2-279a^2b^3-147ab^4-147b^5\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+2b\left(-10a^4+155a^3b+279a^2b^2+261ab^3+147b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(10a^4-279a^2b^2-147b^4\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)-$$

$$\frac{1}{315b^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]$$

$$\left(2\left(10a^5+10a^4b-279a^3b^2-279a^2b^3-147ab^4-147b^5\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+2b\left(-10a^4+155a^3b+279a^2b^2+261ab^3+147b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(10a^4-279a^2b^2-147b^4\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)+$$

$$\frac{1}{315b^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}2\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}$$

$$\left(\frac{1}{2}\left(10a^4-279a^2b^2-147b^4\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}\right.$$

$$\left(10a^5+10a^4b-279a^3b^2-279a^2b^3-147ab^4-147b^5\right)\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{(1+\text{Cos}[c+dx])^2}-\frac{\text{Sin}[c+dx]}{1+\text{Cos}[c+dx]}\right)+$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} b \left(-10 a^4+155 a^3 b+279 a^2 b^2+261 a b^3+147 b^4\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} \left(10 a^5+10 a^4 b-279 a^3 b^2-279 a^2 b^3-147 a b^4-147 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} b \left(-10 a^4+155 a^3 b+279 a^2 b^2+261 a b^3+147 b^4\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-$$

$$a \left(10 a^4-279 a^2 b^2-147 b^4\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$\left(10 a^4-279 a^2 b^2-147 b^4\right)(b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$\left(10 a^4-279 a^2 b^2-147 b^4\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{b \left(-10 a^4+155 a^3 b+279 a^2 b^2+261 a b^3+147 b^4\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(10 a^5+10 a^4 b-279 a^3 b^2-279 a^2 b^3-147 a b^4-147 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\left.\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)+$$

$$\frac{1}{315\, b^2 \sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}}$$

$$\left(2\left(10\,a^5+10\,a^4\,b-279\,a^3\,b^2-279\,a^2\,b^3-147\,a\,b^4-147\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\,b\left(-10\,a^4+155\,a^3\,b+279\,a^2\,b^2+261\,a\,b^3+147\,b^4\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(10\,a^4-279\,a^2\,b^2-147\,b^4\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left.\left.\left(-\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,a\,(a+b)\left(3\,a^2+29\,b^2\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{21\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\left(3\,a^3+27\,a^2\,b+29\,a\,b^2+5\,b^3\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{21\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\left(3\,a^2+29\,b^2\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{21\,b\,d}+\frac{2\left(3\,a^2+5\,b^2\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}[c+d\,x]}{21\,d}+$$

$$\frac{2\,a\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Tan}[c+d\,x]}{7\,d}+\frac{2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Tan}[c+d\,x]}{7\,d}$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

$$\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\,a\left(3\,a^2+29\,b^2\right)\mathrm{Sin}[c+d\,x]}{21\,b}+\frac{2}{21}\,\mathrm{Sec}[c+d\,x]\left(9\,a^2\,\mathrm{Sin}[c+d\,x]+5\,b^2\,\mathrm{Sin}[c+d\,x]\right)+\right.$$

$$\frac{6}{7} a b \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]+\frac{2}{7} b^2 \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]\Bigg)-$$

$$\Bigg(2\Bigg(-\frac{a^3}{7\sqrt{b+a \operatorname{Cos}[c+d x]}\sqrt{\operatorname{Sec}[c+d x]}}-\frac{29 a b^2}{21\sqrt{b+a \operatorname{Cos}[c+d x]}\sqrt{\operatorname{Sec}[c+d x]}}-\frac{a^4\sqrt{\operatorname{Sec}[c+d x]}}{7 b\sqrt{b+a \operatorname{Cos}[c+d x]}}-$$

$$\frac{2 a^2 b\sqrt{\operatorname{Sec}[c+d x]}}{21\sqrt{b+a \operatorname{Cos}[c+d x]}}+\frac{5 b^3\sqrt{\operatorname{Sec}[c+d x]}}{21\sqrt{b+a \operatorname{Cos}[c+d x]}}-\frac{a^4 \operatorname{Cos}[2(c+d x)]\sqrt{\operatorname{Sec}[c+d x]}}{7 b\sqrt{b+a \operatorname{Cos}[c+d x]}}-$$

$$\frac{29 a^2 b \operatorname{Cos}[2(c+d x)]\sqrt{\operatorname{Sec}[c+d x]}}{21\sqrt{b+a \operatorname{Cos}[c+d x]}}\Bigg)\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}$$

$$(a+b \operatorname{Sec}[c+d x])^{5/2}\Bigg(2 a\left(3 a^3+3 a^2 b+29 a b^2+29 b^3\right)\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b\left(3 a^3+27 a^2 b+29 a b^2+5 b^3\right)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$a\left(3 a^2+29 b^2\right)\operatorname{Cos}[c+d x](b+a \operatorname{Cos}[c+d x])\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(21 b d(b+a \operatorname{Cos}[c+d x])^3\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\operatorname{Sec}[c+d x]^{5/2}\Bigg(-\frac{1}{21 b(b+a \operatorname{Cos}[c+d x])^{3/2}\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$a\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\operatorname{Sin}[c+d x]\Bigg(2 a\left(3 a^3+3 a^2 b+29 a b^2+29 b^3\right)\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}$$

$$\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b\left(3 a^3+27 a^2 b+29 a b^2+5 b^3\right)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$a\left(3 a^2+29 b^2\right)\operatorname{Cos}[c+d x](b+a \operatorname{Cos}[c+d x])\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)+$$

$$\frac{1}{21\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\;\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\Bigg(2\,a\,\left(3\,a^3+3\,a^2\,b+29\,a\,b^2+29\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(3\,a^3+27\,a^2\,b+29\,a\,b^2+5\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$a\,\left(3\,a^2+29\,b^2\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{21\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\Bigg(\frac{1}{2}\,a\,\left(3\,a^2+29\,b^2\right)\,\text{Cos}[c+d\,x]$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,a\,\left(3\,a^3+3\,a^2\,b+29\,a\,b^2+29\,b^3\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)-\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}$$

$$b\,\left(3\,a^3+27\,a^2\,b+29\,a\,b^2+5\,b^3\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)+\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}$$

$$a\,\left(3\,a^3+3\,a^2\,b+29\,a\,b^2+29\,b^3\right)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}$$

$$b\left(3a^3+27a^2b+29ab^2+5b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}+\frac{(b+a\,\text{Cos}[c+dx])\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])^2}\right)-a^2\left(3a^2+29b^2\right)\text{Cos}[c+dx]\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2$$

$$\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-a\left(3a^2+29b^2\right)(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$a\left(3a^2+29b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2-$$

$$\frac{b\left(3a^3+27a^2b+29ab^2+5b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\left.\frac{a\left(3a^3+3a^2b+29ab^2+29b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)-$$

$$\frac{1}{21b\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}}$$

$$\left(2a\left(3a^3+3a^2b+29ab^2+29b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-2b\left(3a^3+27a^2b+29ab^2+5b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.a\left(3a^2+29b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+dx]\,(a+b\,\text{Sec}[c+dx])^{5/2},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(23\,a^2+9\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(15\,a^3+23\,a^2\,b+17\,a\,b^2+9\,b^3\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(23\,a^2+9\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,d}+$$

$$\frac{16\,a\,b\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}+\frac{2\,b\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{2}{15}\,\left(23\,a^2+9\,b^2\right)\text{Sin}[c+d\,x]+\frac{22}{15}\,a\,b\,\text{Tan}[c+d\,x]+\frac{2}{5}\,b^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^2}-$$

$$\left(2\left(-\frac{23\,a^2\,b}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{3\,b^3}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{8\,a^3\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\left.\frac{8\,a\,b^2\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{23\,a^3\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{3\,a\,b^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)$$

$$(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(-2\,\left(23\,a^3+23\,a^2\,b+9\,a\,b^2+9\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,\left(15\,a^3+23\,a^2\,b+17\,a\,b^2+9\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-$$

$$\left.\left.\left(23\,a^2+9\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right.$$

$$\left(\frac{1}{15\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^2}\,2\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right.$$

$$\left(-2\left(23a^3+23a^2b+9ab^2+9b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]+2\left(15a^3+23a^2b+17ab^2+9b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\right.\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-\left(23a^2+9b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)-$$

$$\left(a\,\mathrm{Sin}[c+d\,x]\left(-2\left(23a^3+23a^2b+9ab^2+9b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\right.\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\left(15a^3+23a^2b+17ab^2+9b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left.\left.\left(23a^2+9b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(15\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)+$$

$$\left(\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(-2\left(23a^3+23a^2b+9ab^2+9b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\right.\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\left(15a^3+23a^2b+17ab^2+9b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left.\left.\left(23a^2+9b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(15\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)-$$

$$\left(2\left(-\frac{1}{2}\left(23\,a^2+9\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4-\frac{1}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\left(23\,a^3+23\,a^2\,b+9\,a\,b^2+9\,b^3\right)\right.\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\right.$$

$$\left.\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)+\frac{1}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\left(15\,a^3+23\,a^2\,b+17\,a\,b^2+9\,b^3\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)-$$

$$\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\left(23\,a^3+23\,a^2\,b+9\,a\,b^2+9\,b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$\left(15\,a^3+23\,a^2\,b+17\,a\,b^2+9\,b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+a\left(23\,a^2+9\,b^2\right)\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\left(23\,a^2+9\,b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$\left(23\,a^2+9\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$\frac{\left(15\,a^3+23\,a^2\,b+17\,a\,b^2+9\,b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{\left(23 a^3+23 a^2 b+9 a b^2+9 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg)\Bigg/$$

$$\left(15 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]} \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)+$$

$$\Bigg(\Bigg(-2\left(23 a^3+23 a^2 b+9 a b^2+9 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a-b}{a+b}\right]+2\left(15 a^3+23 a^2 b+17 a b^2+9 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]-\left(23 a^2+9 b^2\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \text{Sin}\left[\frac{1}{2}(c+d x)\right]+\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x] \text{Tan}[c+d x]\right)\Bigg)\Bigg/$$

$$\left(15 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]\right)^{3/2} \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$\{\text{Cos}[c+d x](a+b \text{Sec}[c+d x])^{5/2}, x, 8, 0\}$

$$\frac{(a+b)\left(a^2-2 b^2\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{2 b\left(3 a^2-3 a b-b^2\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{10 a^2 b \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1, \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b^2 \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{d}+\frac{\left(a^2-2 b^2\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{d}$$

$$\frac{2 b^2 \text{Cos}[c+d x]^2 (a+b \text{Sec}[c+d x])^{5/2} \text{Sin}[c+d x]}{d (b+a \text{Cos}[c+d x])^2}+$$

$$\left((a+b \text{Sec}[c+d x])^{5/2} \sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(a^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.\right.$$

$$a^2 b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-2 a b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-2 b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$2 a^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+4 a b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+a^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$a^2 b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-2 a b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+2 b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$10 i a^2 b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-10 i a^2 b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i \left(a^3-a^2 b-2 a b^2+2 b^3\right) \text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2 i b \left(2 a^2-3 a b+b^2\right) \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left.\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right) \Big/$$

$$\left(\sqrt{\frac{-a+b}{a+b}} d (b+a \text{Cos}[c+d x])^{5/2} \text{Sec}[c+d x]^{5/2} \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2} \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]^3 (a+b \text{Sec}[c+d x])^{5/2}, x, 9, 0\}$$

$$\frac{(a+b)\left(16a^2+33b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{24d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{b\left(38a^2-13ab+24b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{12d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{5b\left(4a^2+b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{13ab\,\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{12d}+\frac{a^2\,\text{Cos}[c+dx]^2\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{3d}+$$

$$\frac{\left(16a^2+33b^2\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{24d}$$

$$\frac{\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{5/2}\left(\frac{1}{12}a^2\,\text{Sin}[c+dx]+\frac{13}{24}ab\,\text{Sin}[2(c+dx)]+\frac{1}{12}a^2\,\text{Sin}[3(c+dx)]\right)}{d(b+a\,\text{Cos}[c+dx])^2}+$$

$$\Bigg((a+b\,\text{Sec}[c+dx])^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}$$

$$\Bigg(16a^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+16a^2b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+33ab^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$33b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-32a^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-66ab^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+$$

$$16a^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-16a^2b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+33ab^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-$$

$$33b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-120\,i\,a^2b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}-$$

$$30\,i\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-120\,i\,a^2\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$30\,i\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\left(16\,a^3-16\,a^2\,b+33\,a\,b^2-33\,b^3\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,b\left(-22\,a^2+13\,a\,b+9\,b^2\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg)\Bigg/$$

$$\left(24\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2},\,x,\,10,\,0\right\}$$

$$\frac{b\,(a+b)\,\left(284\,a^2+15\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{192\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(72\,a^3-36\,a^2\,b+322\,a\,b^2-59\,b^3\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{96\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^4+120\,a^2\,b^2-5\,b^4\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{32\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(36\,a^2+59\,b^2\right)\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{96\,d}+\frac{17\,a\,b\,\text{Cos}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,d}+$$

$$\frac{a^2\,\text{Cos}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{b\,\left(284\,a^2+15\,b^2\right)\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{192\,a\,d}$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])^2}\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{17}{96}\,a\,b\,\text{Sin}[c+d\,x]+\frac{1}{192}\left(48\,a^2+59\,b^2\right)\text{Sin}[2\,(c+d\,x)]+\frac{17}{96}\,a\,b\,\text{Sin}[3\,(c+d\,x)]+\frac{1}{32}\,a^2\,\text{Sin}[4\,(c+d\,x)]\right)+$$

$$\Bigg((a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\Bigg(-284\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-284\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-15\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$15\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+568\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+30\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$284\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+284\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-15\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$15\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+288\,i\,a^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$720\, i\, a^2 b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 30\, i\, b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$288\, i\, a^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$720\, i\, a^2 b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$30\, i\, b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\, b\left(284 a^3-284 a^2 b+15 a b^2-15 b^3\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$2\, i\left(72 a^4-36 a^3 b+38 a^2 b^2-59 a b^3-15 b^4\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(192\,a\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b\,\text{Sec}[c+d x])^{7/2},\ x,\ 9,\ 0\}$$

$$-\frac{2\,b\,(a+b)\,(58\,a^2+9\,b^2)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\left(15\,a^4-60\,a^3\,b-58\,a^2\,b^2-22\,a\,b^3-9\,b^4\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{4\,a^4\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\,b\,(58\,a^2+9\,b^2)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{15\,d}+$$

$$\frac{26\,a\,b^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{15\,d}+\frac{2\,b^2\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Tan}[c+d x]}{5\,d}$$

$$\Bigg(2\,(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}$$

$$\Bigg(58\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+58\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+9\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+$$

$$9\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]-116\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3-18\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3+$$

$$58\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-58\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+9\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-$$

$$9\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+30\,i\,a^4\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}+$$

$$30\,i\,a^4\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}+$$

$$i\,b\,\left(-58\,a^3+58\,a^2\,b-9\,a\,b^2+9\,b^3\right)\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\left(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-$$

$$i\,\left(15\,a^4-60\,a^3\,b+58\,a^2\,b^2-22\,a\,b^3+9\,b^4\right)\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\left(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(15\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{7/2}\,\mathrm{Sec}[c+d\,x]^{7/2}\sqrt{\frac{1}{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}}\,\left(-1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\right)$$

$$\left(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}}\Bigg)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}\left(\frac{2}{15}\,b\,\left(58\,a^2+9\,b^2\right)\mathrm{Sin}[c+d\,x]+\frac{32}{15}\,a\,b^2\,\mathrm{Tan}[c+d\,x]+\frac{2}{5}\,b^3\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^5}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{8\,a\,(a+b)\,\left(12\,a^2+11\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(48\,a^3+12\,a^2\,b+44\,a\,b^2-25\,b^3\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{8\,a\,\left(12\,a^2+11\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^4\,d}+\frac{2\,\left(24\,a^2+25\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^3\,d}-$$

$$\frac{12\,a\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b^2\,d}+\frac{2\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,b\,d}$$

$$\frac{1}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\left(-\frac{8\,a\,\left(12\,a^2+11\,b^2\right)\text{Sin}[c+d\,x]}{105\,b^4}+\frac{2\,\text{Sec}[c+d\,x]\,\left(24\,a^2\,\text{Sin}[c+d\,x]+25\,b^2\,\text{Sin}[c+d\,x]\right)}{105\,b^3}-\right.$$

$$\left.\frac{12\,a\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{35\,b^2}+\frac{2\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{7\,b}\right)+$$

$$\left(4\left(\frac{16\,a^3}{35\,b^3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{44\,a}{105\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{5\,\sqrt{\text{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{16\,a^4\,\sqrt{\text{Sec}[c+d\,x]}}{35\,b^4\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{32\,a^2\,\sqrt{\text{Sec}[c+d\,x]}}{105\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{16\,a^4\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{35\,b^4\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left.\frac{44\,a^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{105\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(4\,a\,\left(12\,a^3+12\,a^2\,b+11\,a\,b^2+11\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a-b}{a+b}\right]+b\,\left(-48\,a^3-12\,a^2\,b-44\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a-b}{a+b}\right]+$$

$$2\,a\,\left(12\,a^2+11\,b^2\right)\,\mathrm{Cos}[c+d\,x]\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(105\,b^4\,d\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\Bigg(\frac{1}{105\,b^4\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$2\,a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\,\Bigg(4\,a\,\left(12\,a^3+12\,a^2\,b+11\,a\,b^2+11\,b^3\right)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+b\,\left(-48\,a^3-12\,a^2\,b-44\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$2\,a\,\left(12\,a^2+11\,b^2\right)\,\mathrm{Cos}[c+d\,x]\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{105\,b^4\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\Bigg(4\,a\,\left(12\,a^3+12\,a^2\,b+11\,a\,b^2+11\,b^3\right)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+b\,\left(-48\,a^3-12\,a^2\,b-44\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$2\,a\,\left(12\,a^2+11\,b^2\right)\,\mathrm{Cos}[c+d\,x]\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)+$$

$$\frac{1}{105\,b^4\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,4\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\Bigg(a\left(12a^2+11b^2\right)\mathrm{Cos}[c+dx]\,(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^4+\frac{1}{\sqrt{\frac{\mathrm{Cos}[c+dx]}{1+\mathrm{Cos}[c+dx]}}}2a\left(12a^3+12a^2b+11ab^2+11b^3\right)$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+dx]\,\mathrm{Sin}[c+dx]}{(1+\mathrm{Cos}[c+dx])^2}-\right.$$

$$\left.\frac{\mathrm{Sin}[c+dx]}{1+\mathrm{Cos}[c+dx]}\right)+\frac{1}{2\sqrt{\frac{\mathrm{Cos}[c+dx]}{1+\mathrm{Cos}[c+dx]}}}b\left(-48a^3-12a^2b-44ab^2+25b^3\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}}$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+dx]\,\mathrm{Sin}[c+dx]}{(1+\mathrm{Cos}[c+dx])^2}-\frac{\mathrm{Sin}[c+dx]}{1+\mathrm{Cos}[c+dx]}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}}}$$

$$2a\left(12a^3+12a^2b+11ab^2+11b^3\right)\sqrt{\frac{\mathrm{Cos}[c+dx]}{1+\mathrm{Cos}[c+dx]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}+\frac{(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sin}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])^2}\right)+\frac{1}{2\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}}}$$

$$b\left(-48a^3-12a^2b-44ab^2+25b^3\right)\sqrt{\frac{\mathrm{Cos}[c+dx]}{1+\mathrm{Cos}[c+dx]}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}+\frac{(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sin}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])^2}\right)-2a^2\left(12a^2+11b^2\right)\mathrm{Cos}[c+dx]\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2$$

$$\mathrm{Sin}[c+dx]\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]-2a\left(12a^2+11b^2\right)(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Sin}[c+dx]\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$2a\left(12a^2+11b^2\right)\mathrm{Cos}[c+dx]\,(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+$$

$$\frac{b\left(-48a^3-12a^2b-44ab^2+25b^3\right)\sqrt{\frac{\mathrm{Cos}[c+dx]}{1+\mathrm{Cos}[c+dx]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{(a+b)\,(1+\mathrm{Cos}[c+dx])}}\;\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\frac{2\,a\left(12\,a^3+12\,a^2\,b+11\,a\,b^2+11\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)+$$

$$\frac{1}{105\,b^4\sqrt{b+a\,\text{Cos}[c+d\,x]}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}}$$

$$2\Bigg(4\,a\left(12\,a^3+12\,a^2\,b+11\,a\,b^2+11\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+b\left(-48\,a^3-12\,a^2\,b-44\,a\,b^2+25\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$2\,a\left(12\,a^2+11\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\left(8\,a^2+9\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,b^3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(8\,a^2+2\,a\,b+9\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,b^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(8\,a^2+9\,b^2\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^3\,d}-$$

$$\frac{8\,a\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,b^2\,d}+\frac{2\,\text{Sec}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{5\,b\,d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]\left(\frac{2\,(8\,a^2+9\,b^2)\,\mathrm{Sin}[c+d\,x]}{15\,b^3}-\frac{8\,a\,\mathrm{Tan}[c+d\,x]}{15\,b^2}+\frac{2\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{5\,b}\right)}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\left(2\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(-\frac{3}{5\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^2}{15\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{8\,a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,b^3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{7\,a\,\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{8\,a^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,b^3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{3\,a\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\left(2\,(8\,a^3+8\,a^2\,b+9\,a\,b^2+9\,b^3)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(8\,a^2+2\,a\,b+9\,b^2)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.(8\,a^2+9\,b^2)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg)\Bigg/$$

$$\left(15\,b^3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\left(\frac{1}{15\,b^3\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.\right.$$

$$\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\left(2\,(8\,a^3+8\,a^2\,b+9\,a\,b^2+9\,b^3)\right.$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-$$

$$2\,b\,(8\,a^2+2\,a\,b+9\,b^2)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.(8\,a^2+9\,b^2)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-\frac{1}{15\,b^3\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}$$

$$a\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\Bigg(2\left(8\,a^3+8\,a^2\,b+9\,a\,b^2+9\,b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$2\,b\left(8\,a^2+2\,a\,b+9\,b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(8\,a^2+9\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{15\,b^3\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\,2\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}$$

$$\Bigg(\frac{1}{2}\left(8\,a^2+9\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\frac{1}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}\left(8\,a^3+8\,a^2\,b+9\,a\,b^2+9\,b^3\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)-$$

$$\frac{b\left(8\,a^2+2\,a\,b+9\,b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\left(8\,a^3+8\,a^2\,b+9\,a\,b^2+9\,b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)-\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$b\left(8a^2+2ab+9b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}+\frac{(b+a\,\text{Cos}[c+dx])\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])^2}\right)-a\left(8a^2+9b^2\right)\text{Cos}[c+dx]\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2$$

$$\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-\left(8a^2+9b^2\right)(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$\left(8a^2+9b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2-$$

$$\frac{b\left(8a^2+2ab+9b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\left.\frac{\left(8a^3+8a^2b+9ab^2+9b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)-$$

$$\frac{1}{15b^3\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}}\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}$$

$$\left(2\left(8a^3+8a^2b+9ab^2+9b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\right.$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-$$

$$2b\left(8a^2+2ab+9b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(8a^2+9b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^3}{\sqrt{a+b\,\text{Sec}[c+dx]}},\ x,\ 6,\ 0\right\}$$

$$\frac{4\,a\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(2\,a-b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{4\,a\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b^2\,d}+\frac{2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\left(-\frac{4\,a\,\text{Sin}[c+d\,x]}{3\,b^2}+\frac{2\,\text{Tan}[c+d\,x]}{3\,b}\right)}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(4\left(\frac{2\,a}{3\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{\sqrt{\text{Sec}[c+d\,x]}}{3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\left.\frac{2\,a^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(2\,a\,(a+b)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$(2\,a-b)\,b\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.a\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(3\,b^2\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(\left(2\,a\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]\right.\right.\right.$$

$$\left(2\,a\,(a+b)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$(2\,a-b)\,b\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\,b^2\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)-\Bigg(2\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\Bigg(2\,a\,(a+b)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$(2\,a-b)\,b\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\,b^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)+\frac{1}{3\,b^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$4\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\Bigg(\frac{1}{2}\,a\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\frac{a\,(a+b)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}-$$

$$\frac{(2\,a-b)\,b\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{2\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{a\,(a+b)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}-$$

$$\frac{(2a-b)\,b\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}+\frac{(b+a\,\text{Cos}[c+dx])\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])^2}\right)}{2\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}}-$$

$$a^2\,\text{Cos}[c+dx]\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-$$

$$a\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Sin}[c+dx]\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+a\,\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])$$

$$\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2-\frac{(2a-b)\,b\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\left.\frac{a\,(a+b)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)+$$

$$\frac{1}{3b^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}}$$

$$2\left(2a\,(a+b)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-\right.$$

$$(2a-b)\,b\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.a\,\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^2}{\sqrt{a+b\,\text{Sec}[c+dx]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(a+b)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{b\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+\frac{2\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{b\,d}$$

$$\frac{2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\left(\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\left(-\frac{1}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{a\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)\right.$$

$$\mathrm{Sec}[c+d\,x]^{3/2}\left(-4\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+4\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\left.\left.\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+(b+a\,\mathrm{Cos}[c+d\,x])\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\right)\right)\Bigg/$$

$$\left(2\,b\,d\left(\frac{1}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\sqrt{1+\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\left(\left(3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\mathrm{Sec}[c+d\,x]\left(-4\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\right.\right.\right.$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+4\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+(b+a\,\mathrm{Cos}[c+d\,x])\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\Bigg)$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg/\left(4\,b\left(\frac{1}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}\right)+$$

$$\frac{1}{2\,b\left(\frac{1}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{1+\mathrm{Sec}[c+d\,x]}}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\mathrm{Sec}[c+d\,x]$$

$$\Bigg(\Big(b+a\,\mathrm{Cos}[c+d\,x]\Big)\left(\frac{1}{2}\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\frac{3}{2}\,\mathrm{Cos}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+6\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$6\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\frac{1}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}2\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)+$$

$$\frac{2\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}-$$

$$\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}2\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$2\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)-$$

$$a\,\mathrm{Sin}[c+d\,x]\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)+\frac{2\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{2\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)\,-$$

$$\Bigg(\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\mathrm{Sec}[c+d\,x]^2\,\Bigg(-4\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\Big[$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+4\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticF}\Big[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+(b+a\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\Bigg)$$

$$\mathrm{Tan}[c+d\,x]\Bigg)\Big/\left(4\,b\,\left(\frac{1}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,(1+\mathrm{Sec}[c+d\,x])^{3/2}\right)+$$

$$\Bigg(a\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\Bigg(-4\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\Big[$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+4\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticF}\Big[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+(b+a\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\Bigg)$$

$$\mathrm{Tan}[c+d\,x]\Bigg)\Big/\left(4\,b\,\left(\frac{1}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{1+\mathrm{Sec}[c+d\,x]}\right)-$$

$$\Bigg(3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^3\,\Bigg(-4\,(a+b)\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\Big[$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+4\,b\,\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticF}\Big[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\Big]+(b+a\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{3}{2}\,(c+d\,x)\right]\right)\Bigg)$$

$$\text{Tan}[c+d\,x]\Big/\left(4\,b\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\right)+$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3\text{Sec}[c+d\,x]\left(-4\,(a+b)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\Big[\right.\right.$$

$$\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\Big]+4\,b\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+(b+a\,\text{Cos}[c+d\,x])\left(\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)\Bigg)$$

$$\text{Tan}[c+d\,x]\Big/\left(2\,b\left(\frac{1}{1+\text{Cos}[c+d\,x]}\right)^{3/2}\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{1+\text{Sec}[c+d\,x]}\right)\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},x,5,0\right\}$$

$$\frac{(a+b)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,b\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{a\,d}$$

$$\frac{1}{4\,a\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{\frac{\text{Cos}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}}\,\sqrt{\frac{1}{1+\text{Cos}[c+d\,x]}}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^3$$

$$\left(-2\,i\,(a-b)\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\right.$$

$$4\,i\,b\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]+$$

$$4\,i\,b\,\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-$$

$$a\sqrt{\frac{-a+b}{a+b}}\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$\left.2\,b\sqrt{\frac{-a+b}{a+b}}\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]+a\sqrt{\frac{-a+b}{a+b}}\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{Sin}\left[\frac{3}{2}(c+d\,x)\right]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$-\frac{3\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a-b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2+3\,b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a\,d}-\frac{3\,b\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a^2\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Sin}[2\,(c+d\,x)]}{4\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\Bigg(\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(3\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$6\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+3\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$8\,i\,a^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+6\,i\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$8\,i\,a^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$6\,i\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$3\,i\,(a-b)\,b\,\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$2\,i\,\left(2\,a^2-a\,b+3\,b^2\right)\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(4\,a^2\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(-1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)\sqrt{\frac{1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}}$$

$$\left(a\left(-1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)-b\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^5}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$-\frac{2\left(16a^4-8a^2b^2-3b^4\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{5(a-b)b^4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(16a^3-12a^2b+4ab^2-3b^3\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{5(a-b)b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(16a^4-8a^2b^2-3b^4\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{5b^4\left(a^2-b^2\right)d}-\frac{2a^2\,\text{Sec}[c+dx]^2\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2a\left(8a^2-3b^2\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5b^3\left(a^2-b^2\right)d}+\frac{2\left(6a^2-b^2\right)\text{Sec}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5b^2\left(a^2-b^2\right)d}$$

$$\frac{(b+a\,\text{Cos}[c+dx])^2\,\text{Sec}[c+dx]^2\left(\frac{2\left(-16a^4+8a^2b^2+3b^4\right)\text{Sin}[c+dx]}{5b^4\left(-a^2+b^2\right)}+\frac{2a^4\,\text{Sin}[c+dx]}{b^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+dx])}-\frac{6a\,\text{Tan}[c+dx]}{5b^3}+\frac{2\,\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{5b^2}\right)}{d(a+b\,\text{Sec}[c+dx])^{3/2}}+$$

$$\Bigg(2\left(4a^2+b^2\right)(b+a\,\text{Cos}[c+dx])$$

$$\Bigg(\frac{16a^4}{5b^3\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{8a^2}{5b\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-$$

$$\frac{3b}{5\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{4a\sqrt{\text{Sec}[c+dx]}}{5\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}+\frac{16a^5\sqrt{\text{Sec}[c+dx]}}{5b^4\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}-$$

$$\frac{12a^3\sqrt{\text{Sec}[c+dx]}}{5b^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}-\frac{3a\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{5\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}+\frac{16a^5\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{5b^4\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}-$$

$$\frac{8a^3\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{5b^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}\Bigg)\text{Sec}[c+dx]^{3/2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}$$

$$\Bigg(2\left(4a^3+4a^2b-3ab^2-3b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$2b\left(-4a^2-ab+3b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(4a^2-3b^2\right)\text{Cos}[c+dx](b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(5 b^4 \left(-a^2+b^2\right) d \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2} (a+b \text{Sec}[c+d x])^{3/2} \Bigg(\frac{1}{5 b^4 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^{3/2} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$a \left(4 a^2+b^2\right) \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]} \text{Sin}[c+d x] \Bigg(2 \left(4 a^3+4 a^2 b-3 a b^2-3 b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] +$$

$$2 b \left(-4 a^2-a b+3 b^2\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] +$$

$$\left(4 a^2-3 b^2\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg) -$$

$$\frac{1}{5 b^4 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} \left(4 a^2+b^2\right) \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\Bigg(2 \left(4 a^3+4 a^2 b-3 a b^2-3 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],$$

$$\frac{a-b}{a+b}\right] + 2 b \left(-4 a^2-a b+3 b^2\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\Big[\text{ArcSin}\Big[$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big], \frac{a-b}{a+b}\Big] + \left(4 a^2-3 b^2\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg) +$$

$$\frac{1}{5 b^4 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} 2 \left(4 a^2+b^2\right) \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}$$

$$\Bigg(\frac{1}{2} \left(4 a^2-3 b^2\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\left(4\,a^3+4\,a^2\,b-3\,a\,b^2-3\,b^3\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)+$$

$$\frac{b\left(-4\,a^2-a\,b+3\,b^2\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}\left(4\,a^3+4\,a^2\,b-3\,a\,b^2-3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)+\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}$$

$$b\left(-4\,a^2-a\,b+3\,b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-a\left(4\,a^2-3\,b^2\right)\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-\left(4\,a^2-3\,b^2\right)(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\left(4\,a^2-3\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+$$

$$\frac{b\left(-4\,a^2-a\,b+3\,b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{\left(4\,a^3+4\,a^2\,b-3\,a\,b^2-3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\left(\left(4a^2+b^2\right)\left(2\left(4a^3+4a^2b-3ab^2-3b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\right.\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+2b\left(-4a^2-ab+3b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(4a^2-3b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\Bigg)\Bigg/$$

$$\left(5b^4\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^4}{(a+b\,\text{Sec}[c+dx])^{3/2}},x,7,0\right\}$$

$$\frac{2a\left(8a^2-5b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)\,b^3\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(8a^2-6ab+b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)\,b^2\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2a\left(8a^2-5b^2\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3b^3\left(a^2-b^2\right)d}-$$

$$\frac{2a^2\,\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}+\frac{2\left(4a^2-b^2\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3b^2\left(a^2-b^2\right)d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^2\left(-\frac{2\,a\,(-8\,a^2+5\,b^2)\,\mathrm{Sin}[c+d\,x]}{3\,b^3\,(-a^2+b^2)}-\frac{2\,a^3\,\mathrm{Sin}[c+d\,x]}{b^2\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{2\,\mathrm{Tan}[c+d\,x]}{3\,b^2}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}-$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])\left(\frac{5\,a}{3\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^3}{3\,b^2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{8\,a^4\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^3\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{7\,a^2\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{8\,a^4\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^3\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{5\,a^2\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)$$

$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\left(2\,a\,(8\,a^3+8\,a^2\,b-5\,a\,b^2-5\,b^3)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,(8\,a^3+2\,a^2\,b-5\,a\,b^2+b^3)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.a\,(8\,a^2-5\,b^2)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg)\Bigg/$$

$$\left(3\,b^3\,(-a^2+b^2)\,d\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\right.$$

$$\left(-\frac{1}{3\,b^3\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right.$$

$$\left(2\,a\,(8\,a^3+8\,a^2\,b-5\,a\,b^2-5\,b^3)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.\right.$$

$$\frac{a-b}{a+b}\Big] - 2\,b\,\left(8\,a^3+2\,a^2\,b-5\,a\,b^2+b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\Big[\text{ArcSin}\Big[$$

$$\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\ \frac{a-b}{a+b}\Big] + a\,\left(8\,a^2-5\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\,\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Bigg) +$$

$$\frac{1}{3\,b^3\,\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\,\text{Sec}[c+d\,x]}\,\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]$$

$$\Bigg(2\,a\,\left(8\,a^3+8\,a^2\,b-5\,a\,b^2-5\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\Big[\text{ArcSin}\Big[\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],$$

$$\frac{a-b}{a+b}\Big] - 2\,b\,\left(8\,a^3+2\,a^2\,b-5\,a\,b^2+b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\Big[\text{ArcSin}\Big[$$

$$\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\ \frac{a-b}{a+b}\Big] + a\,\left(8\,a^2-5\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\,\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Bigg) -$$

$$\frac{1}{3\,b^3\,\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\,\text{Sec}[c+d\,x]}\,\Bigg(\frac{1}{2}\,a\,\left(8\,a^2-5\,b^2\right)\text{Cos}[c+d\,x]$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\Big[\frac{1}{2}\,(c+d\,x)\Big]^4 + \frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,a\,\left(8\,a^3+8\,a^2\,b-5\,a\,b^2-5\,b^3\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\Big[\text{ArcSin}\Big[\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\ \frac{a-b}{a+b}\Big]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2} - \frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right) - \frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}$$

$$b\,\left(8\,a^3+2\,a^2\,b-5\,a\,b^2+b^3\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\Big[\text{ArcSin}\Big[\text{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\ \frac{a-b}{a+b}\Big]$$

$$\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2} - \frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right) + \frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}\,a\,\left(8\,a^3+8\,a^2\,b-5\,a\,b^2-5\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}b\left(8a^3+2a^2b-5ab^2+b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-a^2\left(8a^2-5b^2\right)\text{Cos}[c+d x]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-a\left(8a^2-5b^2\right)(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$a\left(8a^2-5b^2\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$\frac{b\left(8a^3+2a^2b-5ab^2+b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\left.\frac{a\left(8a^3+8a^2b-5ab^2-5b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)-$$

$$\left(\left(2a\left(8a^3+8a^2b-5ab^2-5b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]-2b\left(8a^3+2a^2b-5ab^2+b^3\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\right.\right.$$

$$\left.\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+a\left(8a^2-5b^2\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+d x)\right]\text{Sec}[c+d x]\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]+\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]\,\text{Tan}[c+d x]\right)\right)\Big/$$

$$\left.\left.\left(3b^3\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3}{(a+b\,\text{Sec}[c+d x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\left(2a^2-b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,b^2\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2(2a-b)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,b\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(2a^2-b^2\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{b^2\left(a^2-b^2\right)d}-\frac{2a^2\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\frac{(b+a\,\text{Cos}[c+dx])^2\,\text{Sec}[c+dx]^2\left(\frac{2\left(-2a^2+b^2\right)\text{Sin}[c+dx]}{b^2\left(-a^2+b^2\right)}+\frac{2a^2\,\text{Sin}[c+dx]}{b\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+dx])}\right)}{d\,(a+b\,\text{Sec}[c+dx])^{3/2}}+$$

$$\left(2(b+a\,\text{Cos}[c+dx])\left(\frac{2a^2}{b\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{b}{\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\right.\right.$$

$$\frac{2a\sqrt{\text{Sec}[c+dx]}}{\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}+\frac{2a^3\sqrt{\text{Sec}[c+dx]}}{b^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}-\frac{a\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}+$$

$$\left.\frac{2a^3\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{b^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}}\right)\text{Sec}[c+dx]^{3/2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}$$

$$\left(2\left(2a^3+2a^2b-ab^2-b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+\right.$$

$$2b\left(-2a^2-ab+b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left.\left(2a^2-b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\right)\Big/$$

$$\left(b^2\left(-a^2+b^2\right)d\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\,(a+b\,\text{Sec}[c+dx])^{3/2}\right.$$

$$\left(\frac{1}{b^2\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,a\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\right.$$

$$\left(2\left(2\,a^3+2\,a^2\,b-a\,b^2-b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]+2\,b\left(-2\,a^2-a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\left.\frac{a-b}{a+b}\right]+\left(2\,a^2-b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)-$$

$$\frac{1}{b^2\left(-a^2+b^2\right)\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\left(2\left(2\,a^3+2\,a^2\,b-a\,b^2-b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]+2\,b\left(-2\,a^2-a\,b+b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\left.\frac{a-b}{a+b}\right]+\left(2\,a^2-b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)+$$

$$\frac{1}{b^2\left(-a^2+b^2\right)\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,2\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}$$

$$\left(\frac{1}{2}\left(2\,a^2-b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4+\right.$$

$$\frac{\left(2 a^3+2 a^2 b-a b^2-b^3\right) \sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]\right],\ \frac{a-b}{a+b}\right] \left(\frac{\cos[c+d x]\ \sin[c+d x]}{(1+\cos[c+d x])^2}-\frac{\sin[c+d x]}{1+\cos[c+d x]}\right)}{\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}}$$

$$+$$

$$\frac{b\left(-2 a^2-a b+b^2\right) \sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]\right],\ \frac{a-b}{a+b}\right] \left(\frac{\cos[c+d x]\ \sin[c+d x]}{(1+\cos[c+d x])^2}-\frac{\sin[c+d x]}{1+\cos[c+d x]}\right)}{\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}}+$$

$$\frac{1}{\sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}}$$

$$\left(2 a^3+2 a^2 b-a b^2-b^3\right)$$

$$\sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]\right],\ \frac{a-b}{a+b}\right]$$

$$\left(-\frac{a \sin[c+d x]}{(a+b)\ (1+\cos[c+d x])}+\frac{(b+a \cos[c+d x])\ \sin[c+d x]}{(a+b)\ (1+\cos[c+d x])^2}\right)+$$

$$\frac{b\left(-2 a^2-a b+b^2\right) \sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]\right],\ \frac{a-b}{a+b}\right] \left(-\frac{a \sin[c+d x]}{(a+b)\ (1+\cos[c+d x])}+\frac{(b+a \cos[c+d x])\ \sin[c+d x]}{(a+b)\ (1+\cos[c+d x])^2}\right)}{\sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}}$$

$$-a\left(2 a^2-b^2\right) \cos[c+d x]\ \text{Sec}\left[\frac{1}{2}\ (c+d x)\right]^2\ \sin[c+d x]\ \text{Tan}\left[\frac{1}{2}\ (c+d x)\right]-\left(2 a^2-b^2\right)$$

$$(b+a \cos[c+d x])\ \text{Sec}\left[\frac{1}{2}\ (c+d x)\right]^2\ \sin[c+d x]\ \text{Tan}\left[\frac{1}{2}\ (c+d x)\right]+\left(2 a^2-b^2\right) \cos[c+d x]\ (b+a \cos[c+d x])$$

$$\text{Sec}\left[\frac{1}{2}\ (c+d x)\right]^2\ \text{Tan}\left[\frac{1}{2}\ (c+d x)\right]^2+\frac{b\left(-2 a^2-a b+b^2\right) \sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\ \sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}\ \text{Sec}\left[\frac{1}{2}\ (c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]^2}\ \sqrt{1-\frac{(a-b)\ \text{Tan}\left[\frac{1}{2}\ (c+d x)\right]^2}{a+b}}}+$$

$$\left.\frac{\left(2 a^3+2 a^2 b-a b^2-b^3\right) \sqrt{\frac{\cos[c+d x]}{1+\cos[c+d x]}}\ \sqrt{\frac{b+a \cos[c+d x]}{(a+b)\ (1+\cos[c+d x])}}\ \text{Sec}\left[\frac{1}{2}\ (c+d x)\right]^2 \sqrt{1-\frac{(a-b)\ \text{Tan}\left[\frac{1}{2}\ (c+d x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\ (c+d x)\right]^2}}\right)+$$

$$\left(\left(2\left(2a^3+2a^2b-ab^2-b^3\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+\right.\right.$$

$$2b\left(-2a^2-ab+b^2\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(2a^2-b^2\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\Big/$$

$$\left.\left(b^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{(a+b\,\text{Sec}[c+dx])^{3/2}},x,7,0\right\}$$

$$\frac{2b\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,(a-b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{4\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-\frac{2b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{a\,(a+b)\,d\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\frac{(b+a\,\text{Cos}[c+dx])^2\,\text{Sec}[c+dx]^2\left(\frac{2b\,\text{Sin}[c+dx]}{a\left(-a^2+b^2\right)}-\frac{2b^2\,\text{Sin}[c+dx]}{a\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+dx])}\right)}{d\,(a+b\,\text{Sec}[c+dx])^{3/2}}+$$

$$\left(2\,(b+a\,\text{Cos}[c+dx])^{3/2}\,\text{Sec}[c+dx]^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right.$$

$$\Bigg(a\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]+b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]-$$

$$2\,a\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^3+a\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^5-b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^5-$$

$$2\,i\,a^2\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+2\,i\,b^2\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$2\,i\,a^2\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$2\,i\,b^2\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-i\,(a-b)\,b\,\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$i\,\left(a^2+a\,b-2\,b^2\right)\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(a\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]}{(a+b\,\text{Sec}[c+d x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2-3b^2\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2(a-b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2b\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a(a-b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{6b\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2b^2\,\text{Sin}[c+d x]}{a\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+d x]}}+\frac{\left(a^2-3b^2\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{a^2\left(a^2-b^2\right)d}$$

$$\frac{(b+a\,\text{Cos}[c+d x])^2\,\text{Sec}[c+d x]^2\left(-\frac{2b^2\,\text{Sin}[c+d x]}{a^2\left(-a^2+b^2\right)}+\frac{2b^3\,\text{Sin}[c+d x]}{a^2\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d x])}\right)}{d\,(a+b\,\text{Sec}[c+d x])^{3/2}}-$$

$$\Bigg((b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\Bigg(a^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+a^2\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-3\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-2\,a^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+6\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$a^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-a^2\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-3\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+$$

$$3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+6\,i\,a^2\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+6\,i\,a^2\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],$$

$$\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\left(a^3-a^2\,b-3\,a\,b^2+3\,b^3\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,b\left(2a^2+a\,b-3b^2\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(a^2\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},x,9,0\right\}$$

$$-\frac{b\left(7a^2-15b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{4a^3(a-b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2a^2-3a\,b+5b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{2a^2(a-b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4a^2+15b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{2a^3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2b^2\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{\left(a^2-5b^2\right)\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2a^2\left(a^2-b^2\right)d}-$$

$$\frac{b\left(7a^2-15b^2\right)\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{4a^3\left(a^2-b^2\right)d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])^2\,\text{Sec}[c+d\,x]^2\left(\frac{2b^3\,\text{Sin}[c+d\,x]}{a^3\left(-a^2+b^2\right)}-\frac{2b^4\,\text{Sin}[c+d\,x]}{a^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d\,x])}+\frac{\text{Sin}[2(c+d\,x)]}{4a^2}\right)}{d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\Bigg((b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Sec}[c+d\,x]^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Big(-7 a^3 b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] - 7 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 15 a b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] +$$

$$15 b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 14 a^3 b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 - 30 a b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 -$$

$$7 a^3 b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 7 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 15 a b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 -$$

$$15 b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 8 i a^4 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} -$$

$$22 i a^2 b^2 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} + 30 i b^4 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} -$$

$$8 i a^4 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} -$$

$$22 i a^2 b^2 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$30 i b^4 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,b\left(7a^3-7a^2b-15ab^2+15b^3\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\left(2a^4-a^3b+9a^2b^2+5ab^3-15b^4\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\right.$$

$$\left.\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^5}{(a+b\,\text{Sec}[c+d x])^{5/2}},x,8,0\right\}$$

$$\frac{8a\left(4a^4-7a^2b^2+2b^4\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^4(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\left(16a^4-12a^3b-16a^2b^2+9ab^3-b^4\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^3(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{8a\left(4a^4-7a^2b^2+2b^4\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3b^4\left(a^2-b^2\right)^2d}-\frac{2a^2\,\text{Sec}[c+d x]^2\,\text{Tan}[c+d x]}{3b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}}-$$

$$\frac{4a^2\left(3a^2-5b^2\right)\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{3b^2\left(a^2-b^2\right)^2d\sqrt{a+b\,\text{Sec}[c+d x]}}+\frac{2\left(8a^4-13a^2b^2+b^4\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{3b^3\left(a^2-b^2\right)^2d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(-\frac{8\,a\,(4\,a^4-7\,a^2\,b^2+2\,b^4)\,\mathrm{Sin}[c+d\,x]}{3\,b^4\,(-a^2+b^2)^2}-\frac{2\,a^3\,\mathrm{Sin}[c+d\,x]}{3\,b^2\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}-\frac{2\,(-7\,a^5\,\mathrm{Sin}[c+d\,x]+11\,a^3\,b^2\,\mathrm{Sin}[c+d\,x])}{3\,b^3\,(-a^2+b^2)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{2\,\mathrm{Tan}[c+d\,x]}{3\,b^3}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}+$$

$$\Bigg(4\,(b+a\,\mathrm{Cos}[c+d\,x])^2\Bigg(\frac{16\,a^5}{3\,b^3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{28\,a^3}{3\,b\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{8\,a\,b}{3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{5\,a^2\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{16\,a^6\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^4\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{32\,a^4\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^2\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{b^2\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{8\,a^2\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{16\,a^6\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^4\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{28\,a^4\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^2\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\Bigg)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\Bigg(4\,a\,(4\,a^5+4\,a^4\,b-7\,a^3\,b^2-7\,a^2\,b^3+2\,a\,b^4+2\,b^5)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+b\,(-16\,a^5-4\,a^4\,b+28\,a^3\,b^2+7\,a^2\,b^3-8\,a\,b^4+b^5)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$2\,a\,(4\,a^4-7\,a^2\,b^2+2\,b^4)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\,b^4\,(a^2-b^2)^2\,d\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\Bigg(\frac{1}{3\,b^4\,(a^2-b^2)^2\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]$$

$$\left(4 a \left(4 a^5+4 a^4 b-7 a^3 b^2-7 a^2 b^3+2 a b^4+2 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+b\left(-16 a^5-4 a^4 b+28 a^3 b^2+7 a^2 b^3-8 a b^4+b^5\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+$$

$$\left.2 a \left(4 a^4-7 a^2 b^2+2 b^4\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)-$$

$$\frac{1}{3 b^4\left(a^2-b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} 2 \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(4 a \left(4 a^5+4 a^4 b-7 a^3 b^2-7 a^2 b^3+2 a b^4+2 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+b\left(-16 a^5-4 a^4 b+28 a^3 b^2+7 a^2 b^3-8 a b^4+b^5\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+$$

$$\left.2 a \left(4 a^4-7 a^2 b^2+2 b^4\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)+$$

$$\frac{1}{3 b^4\left(a^2-b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} 4 \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}$$

$$\left(a \left(4 a^4-7 a^2 b^2+2 b^4\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}\right.$$

$$2 a \left(4 a^5+4 a^4 b-7 a^3 b^2-7 a^2 b^3+2 a b^4+2 b^5\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{2\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} b \left(-16 a^5-4 a^4 b+28 a^3 b^2+7 a^2 b^3-8 a b^4+b^5\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} 2 a \left(4 a^5+4 a^4 b-7 a^3 b^2-7 a^2 b^3+2 a b^4+2 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$\frac{1}{2\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} b \left(-16 a^5-4 a^4 b+28 a^3 b^2+7 a^2 b^3-8 a b^4+b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] \left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-$$

$$2 a^2 \left(4 a^4-7 a^2 b^2+2 b^4\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$2 a \left(4 a^4-7 a^2 b^2+2 b^4\right) (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$2 a \left(4 a^4-7 a^2 b^2+2 b^4\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{b \left(-16 a^5-4 a^4 b+28 a^3 b^2+7 a^2 b^3-8 a b^4+b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} 2 a \left(4 a^5+4 a^4 b-7 a^3 b^2-7 a^2 b^3+2 a b^4+2 b^5\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\left.\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)+$$

$$\left(2\left(4a\left(4a^5+4a^4b-7a^3b^2-7a^2b^3+2ab^4+2b^5\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\right.\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+b\left(-16a^5-4a^4b+28a^3b^2+7a^2b^3-8ab^4+b^5\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.2a\left(4a^4-7a^2b^2+2b^4\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\Big/$$

$$\left.\left.\left(3b^4\left(a^2-b^2\right)^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^4}{(a+b\,\text{Sec}[c+dx])^{5/2}},x,7,0\right\}$$

$$-\frac{2\left(8a^4-15a^2b^2+3b^4\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^3(a+b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(8a^3-6a^2b-9ab^2+3b^3\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^2(a+b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(8a^4-15a^2b^2+3b^4\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3b^3\left(a^2-b^2\right)^2d}-$$

$$\frac{2a^2\,\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{3b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+dx])^{3/2}}-\frac{8a^2\left(a^2-2b^2\right)\text{Tan}[c+dx]}{3b^2\left(a^2-b^2\right)^2d\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(\frac{2\left(8\,a^4-15\,a^2\,b^2+3\,b^4\right)\mathrm{Sin}[c+d\,x]}{3\,b^3\left(-a^2+b^2\right)^2}+\frac{2\,a^2\,\mathrm{Sin}[c+d\,x]}{3\,b\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{8\left(-a^4\,\mathrm{Sin}[c+d\,x]+2\,a^2\,b^2\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^2\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$

$$\left(2\,\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2(b+a\,\mathrm{Cos}[c+d\,x])^2\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left(\frac{5\,a^2}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^4}{3\,b^2\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.$$

$$\frac{b^2}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{8\,a^5\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^3\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{17\,a^3\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{3\,a\,b\sqrt{\mathrm{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{8\,a^5\,\mathrm{Cos}[2\,(c+d\,x)]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^3\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left.\frac{5\,a^3\,\mathrm{Cos}[2\,(c+d\,x)]\sqrt{\mathrm{Sec}[c+d\,x]}}{b\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a\,b\,\mathrm{Cos}[2\,(c+d\,x)]\sqrt{\mathrm{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}$$

$$\left(2\left(8\,a^5+8\,a^4\,b-15\,a^3\,b^2-15\,a^2\,b^3+3\,a\,b^4+3\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-2\,b\left(8\,a^4+2\,a^3\,b-15\,a^2\,b^2-6\,a\,b^3+3\,b^4\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left.\left(8\,a^4-15\,a^2\,b^2+3\,b^4\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right)\Big/$$

$$\left(3\,b^3\left(a^2-b^2\right)^2d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{1}{3\,b^3\left(a^2-b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.\right.$$

$$\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\left(2\left(8\,a^5+8\,a^4\,b-15\,a^3\,b^2-15\,a^2\,b^3+3\,a\,b^4+3\,b^5\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-2\,b\left(8\,a^4+2\,a^3\,b-15\,a^2\,b^2-6\,a\,b^3+3\,b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left(8\,a^4-15\,a^2\,b^2+3\,b^4\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{3\,b^3\,\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])^{3/2}}\,a\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\text{Sin}[c+d\,x]\,\left(2\,\left(8\,a^5+8\,a^4\,b-15\,a^3\,b^2-15\,a^2\,b^3+3\,a\,b^4+3\,b^5\right)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,\left(8\,a^4+2\,a^3\,b-15\,a^2\,b^2-6\,a\,b^3+3\,b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left(8\,a^4-15\,a^2\,b^2+3\,b^4\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{3\,b^3\,\left(a^2-b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\,2\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(\frac{1}{2}\,\left(8\,a^4-15\,a^2\,b^2+3\,b^4\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+\right.$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,\left(8\,a^5+8\,a^4\,b-15\,a^3\,b^2-15\,a^2\,b^3+3\,a\,b^4+3\,b^5\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\,\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)-$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,b\,\left(8\,a^4+2\,a^3\,b-15\,a^2\,b^2-6\,a\,b^3+3\,b^4\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}}$$

$$\left(8 a^5+8 a^4 b-15 a^3 b^2-15 a^2 b^3+3 a b^4+3 b^5\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])^2}\right)-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}}$$

$$b\left(8 a^4+2 a^3 b-15 a^2 b^2-6 a b^3+3 b^4\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])^2}\right)-a\left(8 a^4-15 a^2 b^2+3 b^4\right)\text{Cos}[c+d x]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-\left(8 a^4-15 a^2 b^2+3 b^4\right)(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+\left(8 a^4-15 a^2 b^2+3 b^4\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-\frac{b\left(8 a^4+2 a^3 b-15 a^2 b^2-6 a b^3+3 b^4\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(8 a^5+8 a^4 b-15 a^3 b^2-15 a^2 b^3+3 a b^4+3 b^5\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)-$$

$$\frac{1}{3 b^3\left(a^2-b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}}\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(2\left(8a^5+8a^4b-15a^3b^2-15a^2b^3+3ab^4+3b^5\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-2b\left(8a^4+2a^3b-15a^2b^2-6ab^3+3b^4\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(8a^4-15a^2b^2+3b^4\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^3}{(a+b\,\text{Sec}[c+dx])^{5/2}},x,6,0\right\}$$

$$\frac{4a\left(a^2-3b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^2(a+b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(2a^2-3ab-3b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)\,(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b(a+b)\,d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{4a\left(a^2-3b^2\right)\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3(a-b)\,b^2(a+b)^2\,d\sqrt{a+b\,\text{Sec}[c+dx]}}-\frac{2a^2\,\text{Tan}[c+dx]}{3b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+dx])^{3/2}}$$

$$\frac{(b+a\,\text{Cos}[c+dx])^3\,\text{Sec}[c+dx]^3\left(\frac{4a\left(-a^2+3b^2\right)\text{Sin}[c+dx]}{3b^2\left(-a^2+b^2\right)^2}-\frac{2a\,\text{Sin}[c+dx]}{3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+dx])^2}-\frac{2\left(-a^3\,\text{Sin}[c+dx]+5ab^2\,\text{Sin}[c+dx]\right)}{3b\left(-a^2+b^2\right)^2(b+a\,\text{Cos}[c+dx])}\right)}{d\,(a+b\,\text{Sec}[c+dx])^{5/2}}+$$

$$\left(4(b+a\,\text{Cos}[c+dx])^2\left(\frac{2a^3}{3b\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\right.\right.$$

$$\frac{2ab}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{5a^2\sqrt{\text{Sec}[c+dx]}}{3\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+dx]}}+\frac{2a^4\sqrt{\text{Sec}[c+dx]}}{3b^2\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+dx]}}+$$

$$\frac{b^2\sqrt{\text{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{2\,a^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^4\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}\Bigg)$$

$$\text{Sec}[c+d\,x]^{5/2}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\,\Bigg(2\,a\left(a^3+a^2\,b-3\,a\,b^2-3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+b\left(-2\,a^3+a^2\,b+6\,a\,b^2+3\,b^3\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$a\left(a^2-3\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2\,b+b^3\right)^2 d\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\Bigg(\frac{1}{3\left(-a^2\,b+b^3\right)^2(b+a\,\text{Cos}[c+d\,x])^{3/2}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,a\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]$$

$$\Bigg(2\,a\left(a^3+a^2\,b-3\,a\,b^2-3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a-b}{a+b}\right]+b\left(-2\,a^3+a^2\,b+6\,a\,b^2+3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+a\left(a^2-3\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{3\left(-a^2\,b+b^3\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\;\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(2 a \left(a^3+a^2 b-3 a b^2-3 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+b\left(-2 a^3+a^2 b+6 a b^2+3 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+a\left(a^2-3 b^2\right) \text{Cos}[c+d x](b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)+$$

$$\frac{1}{3\left(-a^2 b+b^3\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} 4 \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}\left(\frac{1}{2} a\left(a^2-3 b^2\right) \text{Cos}[c+d x]\right.$$

$$(b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}} a\left(a^3+a^2 b-3 a b^2-3 b^3\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+\frac{1}{2 \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}$$

$$b\left(-2 a^3+a^2 b+6 a b^2+3 b^3\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]$$

$$\left(\frac{\text{Cos}[c+d x] \text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+\frac{1}{\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} a\left(a^3+a^2 b-3 a b^2-3 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$\frac{1}{2 \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}} b\left(-2 a^3+a^2 b+6 a b^2+3 b^3\right) \sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]$$

$$\left(-\frac{a \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-a^2\left(a^2-3 b^2\right) \text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]-a\left(a^2-3 b^2\right)(b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sin}[c+d x] \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$a\left(a^2-3b^2\right)\operatorname{Cos}[c+dx]\,(b+a\operatorname{Cos}[c+dx])\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2+$$

$$\frac{b\left(-2a^3+a^2b+6ab^2+3b^3\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{2\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\left.\frac{a\left(a^3+a^2b-3ab^2-3b^3\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)+$$

$$\left(2\left(2a\left(a^3+a^2b-3ab^2-3b^3\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+b\left(-2a^3+a^2b+6ab^2+3b^3\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+a\left(a^2-3b^2\right)\operatorname{Cos}[c+dx]\,(b+a\operatorname{Cos}[c+dx])\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\right.$$

$$\left.\left(-\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]\operatorname{Sec}[c+dx]\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]+\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]\right)\right)\Big/$$

$$\left.\left.\left(3\left(-a^2b+b^3\right)^2\sqrt{b+a\operatorname{Cos}[c+dx]}\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sec}[c+dx]}\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+dx]^2}{(a+b\operatorname{Sec}[c+dx])^{5/2}},x,6,0\right\}$$

$$\frac{2\left(a^2+3b^2\right)\sqrt{1+\operatorname{Cos}[c+dx]}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b(a+b)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{2(a+3b)\sqrt{1+\operatorname{Cos}[c+dx]}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2(a+b)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{2\left(a^2+3b^2\right)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]}{3(a-b)b(a+b)^2d\sqrt{a+b\operatorname{Sec}[c+dx]}}+\frac{2a\operatorname{Tan}[c+dx]}{3\left(a^2-b^2\right)d(a+b\operatorname{Sec}[c+dx])^{3/2}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(-\frac{2\,(a^2+3\,b^2)\,\mathrm{Sin}[c+d\,x]}{3\,b\,(-a^2+b^2)^2}+\frac{2\,b\,\mathrm{Sin}[c+d\,x]}{3\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{4\,(a^2\,\mathrm{Sin}[c+d\,x]+b^2\,\mathrm{Sin}[c+d\,x])}{3\,(-a^2+b^2)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}+$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\left(\frac{a^2}{3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{b^2}{(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\right.\right.$$

$$\frac{a^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{a^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b\,(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left.\frac{a\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\left(2\,(a^3+a^2\,b+3\,a\,b^2+3\,b^3)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(a^2+4\,a\,b+3\,b^2)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.(a^2+3\,b^2)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg)\Bigg/$$

$$\left(3\,b\,(a^2-b^2)^2\,d\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{1}{3\,b\,(a^2-b^2)^2\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.\right.$$

$$a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\left(2\,(a^3+a^2\,b+3\,a\,b^2+3\,b^3)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-$$

$$2\,b\,(a^2+4\,a\,b+3\,b^2)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.(a^2+3\,b^2)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{3\,b\,\left(a^2-b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(2\,\left(a^3+a^2\,b+3\,a\,b^2+3\,b^3\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]-2\,b\,\left(a^2+4\,a\,b+3\,b^2\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\right.\right.$$

$$\left.\left.\left.\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\left(a^2+3\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{3\,b\,\left(a^2-b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}$$

$$\left(\frac{1}{2}\,\left(a^2+3\,b^2\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+\right.$$

$$\frac{\left(a^3+a^2\,b+3\,a\,b^2+3\,b^3\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}$$

$$-$$

$$\frac{b\,\left(a^2+4\,a\,b+3\,b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$\left(a^3+a^2\,b+3\,a\,b^2+3\,b^3\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}$$

$$b\left(a^2+4\,a\,b+3\,b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-$$

$$a\left(a^2+3\,b^2\right)\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$\left(a^2+3\,b^2\right)(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\left(a^2+3\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-$$

$$\frac{b\left(a^2+4\,a\,b+3\,b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{\left(a^3+a^2\,b+3\,a\,b^2+3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\left(\left(2\left(a^3+a^2\,b+3\,a\,b^2+3\,b^3\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.\right.$$

$$2\,b\left(a^2+4\,a\,b+3\,b^2\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left(a^2+3\,b^2\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\left.\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\right)\Big/$$

$$\left.\left.\left(3\,b\left(a^2-b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,8,\,0\right\}$$

$$\frac{2\,b\,\left(7\,a^2-3\,b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,a^2\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(3\,a^2+3\,a\,b-2\,b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,a\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,b\,\left(7\,a^2-3\,b^2\right)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,a^2\,(a-b)\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,b^2\,\text{Tan}[c+d\,x]}{3\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])^3\,\text{Sec}[c+d\,x]^3\,\left(\frac{2\,b\,\left(-7\,a^2+3\,b^2\right)\,\text{Sin}[c+d\,x]}{3\,a^2\,\left(-a^2+b^2\right)^2}+\frac{2\,b^3\,\text{Sin}[c+d\,x]}{3\,a^2\,\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])^2}-\frac{8\,\left(-2\,a^2\,b^2\,\text{Sin}[c+d\,x]+b^4\,\text{Sin}[c+d\,x]\right)}{3\,a^2\,\left(-a^2+b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])}\right)}{d\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}+$$

$$\Bigg(2\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(7\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+7\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$3\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-14\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+6\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$7\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-7\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$3\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-6\,i\,a^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$12\,i\,a^2\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-6\,i\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,a^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$12\,i\,a^2\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,b\left(7\,a^3-7\,a^2\,b-3\,a\,b^2+3\,b^3\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$i\left(3\,a^4+6\,a^3\,b-13\,a^2\,b^2-2\,a\,b^3+6\,b^4\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(3a^2\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\right.$$

$$\left.\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]}{(a+b\,\text{Sec}[c+d x])^{5/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{\left(3a^4-26a^2b^2+15b^4\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3a^3(a-b)^2(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2b\left(6a^2+3ab-5b^2\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3a^2(a-b)^2(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{10b\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2b^2\,\text{Sin}[c+d x]}{3a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}}+\frac{2b^2\left(9a^2-5b^2\right)\text{Sin}[c+d x]}{3a^2\left(a^2-b^2\right)^2 d\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(3a^4-26a^2b^2+15b^4\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3a^3\left(a^2-b^2\right)^2 d}$$

$$\frac{(b+a\,\text{Cos}[c+d x])^3\,\text{Sec}[c+d x]^3\left(-\frac{4b^2\left(-5a^2+3b^2\right)\text{Sin}[c+d x]}{3a^3\left(-a^2+b^2\right)^2}-\frac{2b^4\,\text{Sin}[c+d x]}{3a^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d x])^2}+\frac{2\left(-11a^2b^3\,\text{Sin}[c+d x]+7b^5\,\text{Sin}[c+d x]\right)}{3a^3\left(-a^2+b^2\right)^2(b+a\,\text{Cos}[c+d x])}\right)}{d\,(a+b\,\text{Sec}[c+d x])^{5/2}}-$$

$$\left((b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\Big(3 a^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 3 a^4 b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] - 26 a^3 b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] -$$

$$26 a^2 b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 15 a b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 15 b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] -$$

$$6 a^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 + 52 a^3 b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 - 30 a b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 +$$

$$3 a^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 3 a^4 b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 26 a^3 b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 +$$

$$26 a^2 b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 15 a b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 15 b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 +$$

$$30 i a^4 b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} - 60 i a^2 b^3 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$30 i b^5 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} + 30 i a^4 b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} -$$

$$60 i a^2 b^3 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$30\, i\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\left(3 a^5-3 a^4 b-26 a^3 b^2+26 a^2 b^3+15 a b^4-15 b^5\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$2\, i\, b\left(9 a^4+9 a^3 b-28 a^2 b^2-5 a b^3+15 b^4\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(3 a \sqrt{\frac{-a+b}{a+b}}\left(a^3-a b^2\right)^2 d\,(a+b\,\text{Sec}[c+d x])^{5/2} \sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^2}{(a+b\,\text{Sec}[c+d x])^{5/2}},\, x,\, 10,\, 0\right\}$$

$$-\frac{b\left(33 a^4-170 a^2 b^2+105 b^4\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, -\frac{-a+b}{a+b}\right]}{12 a^4 (a-b)^2 (a+b)\, d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}} -$$

$$\frac{\left(6 a^4-9 a^3 b+33 a^2 b^2+21 a b^3-35 b^4\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, -\frac{-a+b}{a+b}\right]}{6 a^3 (a-b)^2 (a+b)\, d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}} +$$

$$\frac{\left(4 a^2+35 b^2\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\, \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, -\frac{-a+b}{a+b}\right]}{2 a^4 d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}} +$$

$$\frac{2 b^2\,\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])^{3/2}} + \frac{2 b^2\left(11 a^2-7 b^2\right)\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d\sqrt{a+b\,\text{Sec}[c+d x]}} +$$

$$\frac{\left(3 a^4-54 a^2 b^2+35 b^4\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{6 a^3\left(a^2-b^2\right)^2 d} -$$

$$\frac{b\left(33 a^4-170 a^2 b^2+105 b^4\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{12 a^4\left(a^2-b^2\right)^2 d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(\frac{2\,b^3\left(-13\,a^2+9\,b^2\right)\mathrm{Sin}[c+d\,x]}{3\,a^4\left(-a^2+b^2\right)^2}+\frac{2\,b^5\,\mathrm{Sin}[c+d\,x]}{3\,a^4\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}-\frac{4\left(-7\,a^2\,b^4\,\mathrm{Sin}[c+d\,x]+5\,b^6\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^4\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{\mathrm{Sin}[2\,(c+d\,x)]}{4\,a^3}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Bigg(33\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+33\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-170\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$170\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+105\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+105\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$66\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+340\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-210\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$33\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-33\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-170\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+$$

$$170\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+105\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$105\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+24\,i\,a^6\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$162\,i\,a^4\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$396\,i\,a^2\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+210\,i\,b^6\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$24\,i\,a^6\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$162\,i\,a^4\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$396\,i\,a^2\,b^4\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$210\,i\,b^6\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$i\,b\,\left(-33\,a^5+33\,a^4\,b+170\,a^3\,b^2-170\,a^2\,b^3-105\,a\,b^4+105\,b^5\right)\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$2\,i\,\left(6\,a^6-3\,a^5\,b+57\,a^4\,b^2+54\,a^3\,b^3-184\,a^2\,b^4-35\,a\,b^5+105\,b^6\right)\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(12\,a^4\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{(a+b\,\text{Sec}[c+d\,x])^{7/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{2\,b\left(58\,a^4-41\,a^2\,b^2+15\,b^4\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,a^3\,(a-b)^3\,(a+b)^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(15\,a^4+30\,a^3\,b-17\,a^2\,b^2-6\,a\,b^3+10\,b^4\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,a^2\,(a-b)^3\,(a+b)^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,b\left(58\,a^4-41\,a^2\,b^2+15\,b^4\right)\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{15\,a^3\,(a-b)^2\,(a+b)^3\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,b^2\,\text{Tan}[c+d\,x]}{5\,a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}+\frac{2\,b^2\left(13\,a^2-5\,b^2\right)\text{Tan}[c+d\,x]}{15\,a^2\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(a+b\,\text{Sec}[c+d\,x])^{7/2}}$$

$$(b+a\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^4\left(\frac{2\,b\left(58\,a^4-41\,a^2\,b^2+15\,b^4\right)\text{Sin}[c+d\,x]}{15\,a^3\left(-a^2+b^2\right)^3}-\frac{2\,b^4\,\text{Sin}[c+d\,x]}{5\,a^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d\,x])^3}+\right.$$

$$\left.\frac{2\left(-19\,a^2\,b^3\,\text{Sin}[c+d\,x]+11\,b^5\,\text{Sin}[c+d\,x]\right)}{15\,a^3\left(-a^2+b^2\right)^2(b+a\,\text{Cos}[c+d\,x])^2}+\frac{2\left(74\,a^4\,b^2\,\text{Sin}[c+d\,x]-65\,a^2\,b^4\,\text{Sin}[c+d\,x]+23\,b^6\,\text{Sin}[c+d\,x]\right)}{15\,a^3\left(a^2-b^2\right)^3(b+a\,\text{Cos}[c+d\,x])}\right)+$$

$$\Bigg(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{7/2}\,\mathrm{Sec}[c+d\,x]^{7/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(58\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+58\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-41\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$41\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+15\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+15\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$116\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+82\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-30\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$58\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-58\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-41\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$41\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+15\,a\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-15\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$30\,i\,a^6\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+90\,i\,a^4\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],$$

$$\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$90\,i\,a^2\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+30\,i\,b^6\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],$$

$$\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$30\, i\, a^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$90\, i\, a^4\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$90\, i\, a^2\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$30\, i\, b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\, b\, \left(-58\, a^5+58\, a^4\, b+41\, a^3\, b^2-41\, a^2\, b^3-15\, a\, b^4+15\, b^5\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\, \left(15\, a^6+45\, a^5\, b-103\, a^4\, b^2-23\, a^3\, b^3+86\, a^2\, b^4+10\, a\, b^5-30\, b^6\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(15 a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^3 d\,(a+b\,\text{Sec}[c+d x])^{7/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\right.$$

$$\left.\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{7/2}}{a+b\,\text{Sec}[c+d x]},\ x,\ 9,\ 0\right\}$$

$$\frac{2 a\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{b^2 d}+$$

$$\frac{2\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{3 b d}+\frac{2 a^2\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\ \frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{b^2(a+b) d}-$$

$$\frac{2 a\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{b^2 d}+\frac{2\,\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 b d}$$

$$-\frac{1}{3 b^3 d}2\,\text{Csc}[2(c+d x)]$$

$$\Bigg(-b^2\sqrt{\text{Sec}[c+d x]}+b^2\,\text{Cos}[2(c+d x)]\sqrt{\text{Sec}[c+d x]}+6 a b\,\text{Cos}[c+d x]^2\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]$$

$$\sqrt{-\text{Tan}[c+d x]^2}-2\left(3 a^2+3 a b+b^2\right)\text{Cos}[c+d x]^2\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{-\text{Tan}[c+d x]^2}-$$

$$3 a^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{-\text{Tan}[c+d x]^2}-$$

$$3 a^2\,\text{Cos}[2(c+d x)]\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{-\text{Tan}[c+d x]^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{9/2}}{(a+b\,\text{Sec}[c+d x])^2},\ x,\ 10,\ 0\right\}$$

$$\frac{a\left(5 a^2-4 b^2\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{b^3\left(a^2-b^2\right) d}+$$

$$\frac{\left(5 a^2-2 b^2\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{3 b^2\left(a^2-b^2\right) d}+$$

$$\frac{a^2\left(5 a^2-7 b^2\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\ \frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{(a-b) b^3(a+b)^2 d}-$$

$$\frac{a\left(5 a^2-4 b^2\right)\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{b^3\left(a^2-b^2\right) d}+\frac{\left(5 a^2-2 b^2\right)\text{Sec}[c+d x]^{3/2}\,\text{Sin}[c+d x]}{3 b^2\left(a^2-b^2\right) d}-\frac{a^2\,\text{Sec}[c+d x]^{5/2}\,\text{Sin}[c+d x]}{b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{12\,(a-b)\,b^3\,(a+b)\,d}\left(-\left(2\left(40\,a^3\,b-28\,a\,b^3\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\left(45\,a^4-44\,a^2\,b^2-4\,b^4\right)\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\left(15\,a^4-12\,a^2\,b^2\right)\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(-\frac{a\left(-5\,a^2+4\,b^2\right)\mathrm{Sin}[c+d\,x]}{b^3\left(-a^2+b^2\right)}-\frac{a^3\,\mathrm{Sin}[c+d\,x]}{b^2\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{2\,\mathrm{Tan}[c+d\,x]}{3\,b^2}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{7/2}}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,9,\,0\right\}$$

$$-\frac{\left(3\,a^2-2\,b^2\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{b^2\left(a^2-b^2\right)d}-\frac{a\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{b\left(a^2-b^2\right)d}-\frac{a\left(3\,a^2-5\,b^2\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{(a-b)\,b^2\,(a+b)^2\,d}+\frac{\left(3\,a^2-2\,b^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{b^2\left(a^2-b^2\right)d}-\frac{a^2\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{\sqrt{\text{Sec}[c+d\,x]}\left(\frac{\left(-3\,a^2+2\,b^2\right)\text{Sin}[c+d\,x]}{b^2\left(-a^2+b^2\right)}+\frac{a^2\,\text{Sin}[c+d\,x]}{b\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d\,x])}\right)}{d}-$$

$$\frac{1}{4\,(a-b)\,b^2\,(a+b)\,d}\left(-\left(2\left(8\,a^2\,b-4\,b^3\right)\text{Cos}[c+d\,x]^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right](a+b\,\text{Sec}[c+d\,x])\right.\right.$$

$$\left.\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)\right)+\frac{1}{b\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)}$$

$$2\left(9\,a^3-10\,a\,b^2\right)\text{Cos}[c+d\,x]^2\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]+\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]\right)$$

$$(a+b\,\text{Sec}[c+d\,x])\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)\sqrt{\text{Sec}[c+d\,x]}\left(2-\text{Sec}[c+d\,x]^2\right)}2\left(3\,a^3-2\,a\,b^2\right)\text{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\text{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\text{Sec}[c+d\,x]^2+2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]\sqrt{\text{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\text{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]\sqrt{\text{Sec}[c+d\,x]}\sqrt{1-\text{Sec}[c+d\,x]^2}+$$

$$a^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]\sqrt{\text{Sec}[c+d\,x]}\sqrt{1-\text{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],-1\right]\sqrt{\text{Sec}[c+d\,x]}\sqrt{1-\text{Sec}[c+d\,x]^2}\right)\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$\frac{\left(2\,a^2-3\,b^2\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^2\left(a^2-b^2\right)d}-$$

$$\frac{b\left(4\,a^2-3\,b^2\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^3\left(a^2-b^2\right)d}+$$

$$\frac{b^2\left(5\,a^2-3\,b^2\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^3\,(a-b)\,(a+b)^2\,d}+\frac{b^2\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{\sqrt{\text{Sec}[c+d x]}\left(-\frac{b^2 \text{Sin}[c+d x]}{a^2\left(-a^2+b^2\right)}+\frac{b^3 \text{Sin}[c+d x]}{a^2\left(-a^2+b^2\right)(b+a \text{Cos}[c+d x])}\right)}{d}+\frac{1}{4 a(-a+b)(a+b) d}$$

$$\left(-\frac{8 b \text{Cos}[c+d x]^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right](a+b \text{Sec}[c+d x])\sqrt{1-\text{Sec}[c+d x]^2}\,\text{Sin}[c+d x]}{(b+a \text{Cos}[c+d x])\left(1-\text{Cos}[c+d x]^2\right)}+\right.$$

$$\frac{1}{b(b+a \text{Cos}[c+d x])\left(1-\text{Cos}[c+d x]^2\right)}2\left(-2 a^2+b^2\right)\text{Cos}[c+d x]^2\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]+\right.$$

$$\left.\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\right)(a+b \text{Sec}[c+d x])\sqrt{1-\text{Sec}[c+d x]^2}\,\text{Sin}[c+d x]-$$

$$\frac{1}{a^2 b(b+a \text{Cos}[c+d x])\left(1-\text{Cos}[c+d x]^2\right)\sqrt{\text{Sec}[c+d x]}\left(2-\text{Sec}[c+d x]^2\right)}2\left(-2 a^2+3 b^2\right)\text{Cos}[2(c+d x)]$$

$$(a+b \text{Sec}[c+d x])\left(2 a b-2 a b \text{Sec}[c+d x]^2+2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{\text{Sec}[c+d x]}\right.$$

$$\sqrt{1-\text{Sec}[c+d x]^2}+a(a-2 b)\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{\text{Sec}[c+d x]}\sqrt{1-\text{Sec}[c+d x]^2}+$$

$$a^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{\text{Sec}[c+d x]}\sqrt{1-\text{Sec}[c+d x]^2}-$$

$$\left.\left.2 b^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\sqrt{\text{Sec}[c+d x]}\sqrt{1-\text{Sec}[c+d x]^2}\right)\text{Sin}[c+d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{3/2}(a+b \text{Sec}[c+d x])^2},x,9,0\right\}$$

$$-\frac{b\left(4 a^2-5 b^2\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^3\left(a^2-b^2\right) d}+$$

$$\frac{\left(2 a^4+16 a^2 b^2-15 b^4\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^4\left(a^2-b^2\right) d}-$$

$$\frac{b^3\left(7 a^2-5 b^2\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{a^4(a-b)(a+b)^2 d}+$$

$$\frac{\left(2 a^2-5 b^2\right)\text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right) d\sqrt{\text{Sec}[c+d x]}}+\frac{b^2 \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d\sqrt{\text{Sec}[c+d x]}(a+b \text{Sec}[c+d x])}$$

$$\frac{1}{12 a^2 (a-b)(a+b) d}\left(-\left(2\left(4a^3+8ab^2\right)\text{Cos}[c+dx]^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right](a+b\,\text{Sec}[c+dx])\sqrt{1-\text{Sec}[c+dx]^2}\,\text{Sin}[c+dx]\right)\Big/\left(a(b+a\,\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)\right)+\frac{1}{b(b+a\,\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)}2\left(-8a^2b+5b^3\right)\text{Cos}[c+dx]^2\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]+\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\right)(a+b\,\text{Sec}[c+dx])\sqrt{1-\text{Sec}[c+dx]^2}\,\text{Sin}[c+dx]-\frac{1}{a^2b(b+a\,\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)\sqrt{\text{Sec}[c+dx]}\left(2-\text{Sec}[c+dx]^2\right)}2\left(-12a^2b+15b^3\right)\text{Cos}[2(c+dx)](a+b\,\text{Sec}[c+dx])\left(2ab-2ab\,\text{Sec}[c+dx]^2+2ab\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}+a(a-2b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}+a^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}-2b^2\,\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}\right)\text{Sin}[c+dx]\right)+\frac{\sqrt{\text{Sec}[c+dx]}\left(\frac{b^3\,\text{Sin}[c+dx]}{a^3\left(-a^2+b^2\right)}-\frac{b^4\,\text{Sin}[c+dx]}{a^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+dx])}+\frac{\text{Sin}[2(c+dx)]}{3a^2}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{9/2}}{(a+b\,\text{Sec}[c+dx])^3},x,10,0\right\}$$

$$-\frac{\left(15a^4-29a^2b^2+8b^4\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{4b^3\left(a^2-b^2\right)^2 d}-\frac{a\left(5a^2-11b^2\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{4b^2\left(a^2-b^2\right)^2 d}-\frac{a\left(15a^4-38a^2b^2+35b^4\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{4(a-b)^2b^3(a+b)^3 d}+\frac{\left(15a^4-29a^2b^2+8b^4\right)\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{4b^3\left(a^2-b^2\right)^2 d}-\frac{a^2\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{2b\left(a^2-b^2\right)d(a+b\,\text{Sec}[c+dx])^2}-\frac{a^2\left(5a^2-11b^2\right)\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{4b^2\left(a^2-b^2\right)^2 d(a+b\,\text{Sec}[c+dx])}$$

$$-\frac{1}{16\,(a-b)^2\,b^3\,(a+b)^2\,d}\Bigg(-\Big(2\,\left(40\,a^4\,b-80\,a^2\,b^3+16\,b^5\right)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\Big)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(45\,a^5-95\,a^3\,b^2+56\,a\,b^4\right)\,\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]+\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\,\left(15\,a^5-29\,a^3\,b^2+8\,a\,b^4\right)\,\mathrm{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\Big(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$2\,b^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\Big)\,\mathrm{Sin}[c+d\,x]\Bigg)+$$

$$\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(\frac{\left(15\,a^4-29\,a^2\,b^2+8\,b^4\right)\,\mathrm{Sin}[c+d\,x]}{4\,b^3\,\left(-a^2+b^2\right)^2}+\frac{a^2\,\mathrm{Sin}[c+d\,x]}{2\,b\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{-5\,a^4\,\mathrm{Sin}[c+d\,x]+11\,a^2\,b^2\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{7/2}}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{3\,a\,\left(a^2-3\,b^2\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^2-7\,b^2\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{3\,\left(a^4-2\,a^2\,b^2+5\,b^4\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,(a-b)^2\,b^2\,(a+b)^3\,d}-$$

$$\frac{a^2\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-\frac{3\,a^2\,\left(a^2-3\,b^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16\,(a-b)^2\,b^2\,(a+b)^2\,d}\left(-\left(2\,\left(8\,a^3\,b-32\,a\,b^3\right)\,\text{Cos}[c+d\,x]^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,(a+b\,\text{Sec}[c+d\,x])\,\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)\right)+\right.$$

$$\frac{1}{b\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)}\,2\,\left(9\,a^4-19\,a^2\,b^2+16\,b^4\right)\,\text{Cos}[c+d\,x]^2\,\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]+\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\text{Sec}[c+d\,x])\,\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)\,\sqrt{\text{Sec}[c+d\,x]}\,\left(2-\text{Sec}[c+d\,x]^2\right)}\,2\,\left(3\,a^4-9\,a^2\,b^2\right)\,\text{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\text{Sec}[c+d\,x])\,\left(2\,a\,b-2\,a\,b\,\text{Sec}[c+d\,x]^2+2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}+\right.$$

$$a^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}\right)\,\text{Sin}[c+d\,x]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(\frac{3\,a\,\left(-a^2+3\,b^2\right)\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(-a^2+b^2\right)^2}-\frac{a\,\text{Sin}[c+d\,x]}{2\,\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])^2}+\frac{a^3\,\text{Sin}[c+d\,x]-7\,a\,b^2\,\text{Sin}[c+d\,x]}{4\,b\,\left(-a^2+b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{(a+b\,\text{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{\left(a^2+5\,b^2\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,b\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{3\,\left(a^2+b^2\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,a\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^4-10\,a^2\,b^2-3\,b^4\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{4\,a\,(a-b)^2\,b\,(a+b)^3\,d}-$$

$$\frac{a^2\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{a\,\left(a^2-7\,b^2\right)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,b\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16\,(a-b)^2\,b\,(a+b)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(-\left(2\,\left(8\,a^2\,b+16\,b^3\right)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right.\right.$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(3\,a^3-9\,a\,b^2\right)\,\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\right.$$

$$\left.\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\,\left(a^3+5\,a\,b^2\right)\,\mathrm{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{7/2}\left(-\frac{\left(a^2+5\,b^2\right)\,\mathrm{Sin}[c+d\,x]}{4\,b\,\left(-a^2+b^2\right)^2}+\frac{b\,\mathrm{Sin}[c+d\,x]}{2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{3\,\left(a^2\,\mathrm{Sin}[c+d\,x]+b^2\,\mathrm{Sin}[c+d\,x]\right)}{4\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$-\frac{\left(5\,a^2+b^2\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{b\,\left(7\,a^2-b^2\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^4+10\,a^2\,b^2-b^4\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\,(a-b)^2\,(a+b)^3\,d}+$$

$$\frac{a\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{3\,\left(a^2+b^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{16\,(a-b)^2\,(a+b)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(-\frac{48\,b\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]}{(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}+\right.$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(-a^2-5\,b^2\right)\,\mathrm{Cos}[c+d\,x]^2\,\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\right.$$

$$\left.\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\,\left(5\,a^2+b^2\right)\,\mathrm{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{7/2}\,\left(\frac{\left(5\,a^2+b^2\right)\,\mathrm{Sin}[c+d\,x]}{4\,a\,\left(a^2-b^2\right)^2}-\frac{b^2\,\mathrm{Sin}[c+d\,x]}{2\,a\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{-7\,a^2\,b\,\mathrm{Sin}[c+d\,x]+b^3\,\mathrm{Sin}[c+d\,x]}{4\,a\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{3\,b\,\left(3\,a^2-b^2\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(8\,a^4-5\,a^2\,b^2+3\,b^4\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{3\,b\,\left(5\,a^4-2\,a^2\,b^2+b^4\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,(a-b)^2\,(a+b)^3\,d}-$$

$$\frac{b\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-\frac{b\,\left(7\,a^2-b^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,a\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16\,a\,(a-b)^2\,(a+b)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}$$
$$(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(-\left(2\left(16\,a^3+8\,a\,b^2\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right.\right.$$
$$\left.(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$
$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\left(-5\,a^2\,b-b^3\right)\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\right.$$
$$\left.\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$
$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\left(9\,a^2\,b-3\,b^3\right)\mathrm{Cos}[2\,(c+d\,x)]$$
$$(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\right.$$
$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$
$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$
$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+$$
$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{7/2}\left(\frac{3\,b\,\left(-3\,a^2+b^2\right)\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(-a^2+b^2\right)^2}+\frac{b^3\,\mathrm{Sin}[c+d\,x]}{2\,a^2\,\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{11\,a^2\,b^2\,\mathrm{Sin}[c+d\,x]-5\,b^4\,\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}$$

Incorrect antiderivative:

$$\left\{\frac{1}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$
$$\frac{\left(8\,a^4-29\,a^2\,b^2+15\,b^4\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,\left(a^2-b^2\right)^2\,d}-$$
$$\frac{3\,b\,\left(8\,a^4-11\,a^2\,b^2+5\,b^4\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^4\,\left(a^2-b^2\right)^2\,d}+$$
$$\frac{b^2\,\left(35\,a^4-38\,a^2\,b^2+15\,b^4\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^4\,(a-b)^2\,(a+b)^3\,d}+$$
$$\frac{b^2\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,a\,\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{b^2\,\left(11\,a^2-5\,b^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16 a^2 (a-b)^2 (a+b)^2 d}$$

$$\left(-\left(2 \left(-32 a^3 b+8 a b^3\right) \text{Cos}[c+d x]^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] (a+b \text{Sec}[c+d x]) \sqrt{1-\text{Sec}[c+d x]^2}\right.\right.$$

$$\left.\text{Sin}[c+d x]\right) \Big/ \left(a (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)\right)+$$

$$\frac{1}{b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)} 2 \left(8 a^4-7 a^2 b^2+5 b^4\right) \text{Cos}[c+d x]^2 \left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right]+\right.$$

$$\left.\text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right]\right) (a+b \text{Sec}[c+d x]) \sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]-$$

$$\frac{1}{a^2 b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right) \sqrt{\text{Sec}[c+d x]} \left(2-\text{Sec}[c+d x]^2\right)} 2 \left(8 a^4-29 a^2 b^2+15 b^4\right) \text{Cos}[2 (c+d x)]$$

$$(a+b \text{Sec}[c+d x]) \left(2 a b-2 a b \text{Sec}[c+d x]^2+2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]}\right.$$

$$\sqrt{1-\text{Sec}[c+d x]^2}+a (a-2 b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+$$

$$a^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}-$$

$$\left.\left.2 b^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}\right) \text{Sin}[c+d x]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+d x]} \left(-\frac{b^2 \left(-13 a^2+7 b^2\right) \text{Sin}[c+d x]}{4 a^3 \left(-a^2+b^2\right)^2}-\frac{b^4 \text{Sin}[c+d x]}{2 a^3 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^2}+\frac{3 \left(-5 a^2 b^3 \text{Sin}[c+d x]+3 b^5 \text{Sin}[c+d x]\right)}{4 a^3 \left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Sec}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])^3}, x, 10, 0\right\}$$

$$-\frac{b \left(24 a^4-65 a^2 b^2+35 b^4\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^4 \left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(8 a^6+128 a^4 b^2-223 a^2 b^4+105 b^6\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{12 a^5 \left(a^2-b^2\right)^2 d}-$$

$$\frac{b^3 \left(63 a^4-86 a^2 b^2+35 b^4\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^5 (a-b)^2 (a+b)^3 d}+\frac{\left(8 a^4-61 a^2 b^2+35 b^4\right) \text{Sin}[c+d x]}{12 a^3 \left(a^2-b^2\right)^2 d \sqrt{\text{Sec}[c+d x]}}+$$

$$\frac{b^2 \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d \sqrt{\text{Sec}[c+d x]} (a+b \text{Sec}[c+d x])^2}+\frac{b^2 \left(13 a^2-7 b^2\right) \text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d \sqrt{\text{Sec}[c+d x]} (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^3 (a-b)^2 (a+b)^2 d}$$

$$\left(-\left(2 \left(16 a^5+112 a^3 b^2-56 a b^4\right) \text{Cos}[c+d x]^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] (a+b \text{Sec}[c+d x])\right.\right.$$

$$\left.\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]\right) \Big/ \left(a (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)\right)+$$

$$\frac{1}{b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)} 2 \left(-56 a^4 b+73 a^2 b^3-35 b^5\right) \text{Cos}[c+d x]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right]+\text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right]\right) (a+b \text{Sec}[c+d x])$$

$$\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]-\frac{1}{a^2 b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right) \sqrt{\text{Sec}[c+d x]} \left(2-\text{Sec}[c+d x]^2\right)}$$

$$2 \left(-72 a^4 b+195 a^2 b^3-105 b^5\right) \text{Cos}[2 (c+d x)] (a+b \text{Sec}[c+d x])$$

$$\left(2 a b-2 a b \text{Sec}[c+d x]^2+2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+\right.$$

$$a (a-2 b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+$$

$$a^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}-$$

$$\left.\left.2 b^2 \text{EllipticPi}\left[-\frac{b}{a}, -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right], -1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}\right) \text{Sin}[c+d x]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+d x]} \left(\frac{b^3 \left(-17 a^2+11 b^2\right) \text{Sin}[c+d x]}{4 a^4 \left(-a^2+b^2\right)^2}+\frac{b^5 \text{Sin}[c+d x]}{2 a^4 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^2}+\frac{19 a^2 b^4 \text{Sin}[c+d x]-13 b^6 \text{Sin}[c+d x]}{4 a^4 \left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}+\frac{\text{Sin}[2 (c+d x)]}{3 a^3}\right)}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d x]} (a+b \text{Sec}[c+d x])^{3/2}, x, 10, 0\right\}$$

$$-\frac{b (a+b) \sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}} \text{EllipticE}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(2 a^2+b^2\right) \sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}} \text{EllipticF}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{3 a b \sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}} \text{EllipticPi}\left[2, \frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\text{Sec}[c+d x]}}{d \sqrt{a+b \text{Sec}[c+d x]}}+\frac{b \sqrt{\text{Sec}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{d}$$

$$\frac{b\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,(b+a\,\mathrm{Cos}[c+d\,x])\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{1}{4\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Sec}[c+d\,x]^{3/2}}\,a\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{8\,a\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{10\,b\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\left(2\,i\,\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\,\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left(\sqrt{\frac{1}{a-b}}\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\,\left(2\,a^2-b^2\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,\left(4\,a^2+b^2\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{5\,a\,b^2\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{b^2\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}$$

$$\frac{1}{4\,d\,\text{Sec}[c+d\,x]^{5/2}}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{1}{(b+a\,\text{Cos}[c+d\,x])^{5/2}}\right.$$

$$a\left(\frac{24\,a\,b\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,(2\,a^2+9\,b^2)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.$$

$$\frac{1}{a^2\,\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,(2\,a^2-b^2)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,b^2\,\text{Tan}[c+d\,x]}{(b+a\,\text{Cos}[c+d\,x])^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,10,\,0\right\}$$

$$\frac{14\,a\,b\,(a+b)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(a^2+2\,b^2)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,\text{Sec}[c+d\,x]^{5/2}}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{1}{(b+a\,\text{Cos}[c+d\,x])^{5/2}}\,2\left(\frac{2\,a\,\left(a^2+9\,b^2\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{b\,\left(7\,a^2+6\,b^2\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{1}{\sqrt{\frac{1}{a-b}}}\,7\,i\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}$$

$$\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a^2\,\text{Sin}[c+d\,x]}{(b+a\,\text{Cos}[c+d\,x])^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$\frac{2\,a\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{(a-b)\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\,a^2\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\mathrm{Sec}[c+d\,x]^{3/2}\left(\frac{1}{(a-b)\,(a+b)}\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\left(\frac{4\,a\,b\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,(3\,a^2-2\,b^2)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{1}{\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}$$

$$\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}\,\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\right.\right.$$

$$\left.\left.\left.\left.i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a^2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{-a^2+b^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{9/2}}{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,12,\,0\right\}$$

$$-\frac{(15\,a^4-26\,a^2\,b^2+3\,b^4)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,(a-b)^2\,b^3\,(a+b)\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(5\,a^2-3\,b^2)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,b^2\,(a^2-b^2)\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{5\,a\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b^3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,a^2\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{3\,b\,(a^2-b^2)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}-$$

$$\frac{2\,a^2\,(5\,a^2-9\,b^2)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,b^2\,(a^2-b^2)^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{(15\,a^4-26\,a^2\,b^2+3\,b^4)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,b^3\,(a^2-b^2)^2\,d}$$

$$-\frac{1}{12\,(a-b)^2\,b^3\,(a+b)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$a\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\left(\frac{2\left(20\,a^3\,b-36\,a\,b^3\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(45\,a^4-86\,a^2\,b^2+33\,b^4\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(15\,a^4-26\,a^2\,b^2+3\,b^4\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\;\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[\right.\right.\right.$$

$$i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\Big]+a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\right.\right.$$

$$\left.\left.\frac{-a+b}{a+b}\right]+a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\Bigg)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\;b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{5/2}\left(-\frac{2\,a^3\,\mathrm{Sin}[c+d\,x]}{3\,b^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}-\frac{4\left(-3\,a^5\,\mathrm{Sin}[c+d\,x]+5\,a^3\,b^2\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^3\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{\mathrm{Tan}[c+d\,x]}{b^3}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{5/2}}{a+b\,\mathrm{Sec}[c+d\,x]},\,x,\,8,\,0\right\}$$

$$\frac{2\left(3\,a^2+5\,b^2\right)\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^3\,d}-\frac{2\,b\left(a^2+3\,b^2\right)\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^4\,d}+$$

$$\frac{2\,b^4\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a^4\,(a+b)\,d}-\frac{2\,b\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{2\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,a\,d}$$

$$\frac{1}{30\,a^2\,d}$$

$$\left(\frac{2\left(9\,a^2+5\,b^2\right)\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}+8\,b\left(2\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\frac{2\,b\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}\right)+\right.$$

$$4\,\sqrt{\mathrm{Cos}[c+d\,x]}\;(-5\,b+3\,a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,\sqrt{\mathrm{Sin}[c+d\,x]^2}}$$

$$6\left(3\,a^2+5\,b^2\right)\left(2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\right],\,-1\right]-2\,b\,(a+b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\right],\,-1\right]+\right.$$

$$\left.\left.\left(a^2-2\,b^2\right)\mathrm{EllipticPi}\left[-\frac{a}{b},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Cos}[c+d\,x]}\right],\,-1\right]\right)\mathrm{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,b\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^2\,d}+\frac{2\,\left(a^2+3\,b^2\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^3\,d}-\frac{2\,b^3\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^3\,(a+b)\,d}+\frac{2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}$$

$$\frac{1}{6\,a\,d}\left(4\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-\frac{6\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+4\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]+\frac{1}{a^2\,\sqrt{\text{Sin}[c+d\,x]^2}}\,6\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,d}-\frac{2\,a\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,(a+b)\,d}+\frac{2\,\text{Sin}[c+d\,x]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d}\left(-\frac{6\,a\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}-\frac{2\,b\,\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}\right)}{a}+\frac{4\,\text{Sin}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}}+\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 8,\ 0\right\}$$

$$-\frac{b\,\left(4\,a^2-5\,b^2\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^3\,\left(a^2-b^2\right)\,d}+\frac{\left(2\,a^4+16\,a^2\,b^2-15\,b^4\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^4\,\left(a^2-b^2\right)\,d}-\frac{b^3\,\left(7\,a^2-5\,b^2\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^4\,(a-b)\,(a+b)^2\,d}+\frac{\left(2\,a^2-5\,b^2\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,\left(a^2-b^2\right)\,d}+\frac{b^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{12 a^2 d}\left(4\sqrt{\text{Cos}[c+d x]}\left(2+\frac{3 b^3}{\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d x])}\right)\text{Sin}[c+d x]-\frac{1}{(-a+b)(a+b)}\left(\frac{2\left(-8 a^2 b+5 b^3\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\frac{8\left(a^2+2 b^2\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}+\frac{1}{a^2\sqrt{\text{Sin}[c+d x]^2}}6\left(4 a^2-5 b^2\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d x]}}{(a+b\,\text{Sec}[c+d x])^2},x,7,0\right\}$$

$$\frac{\left(2 a^2-3 b^2\right)\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right)d}-\frac{b\left(4 a^2-3 b^2\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^3\left(a^2-b^2\right)d}+\frac{b^2\left(5 a^2-3 b^2\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^3(a-b)(a+b)^2 d}+\frac{b^2\,\text{Sin}[c+d x]}{a\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{4 a d}\left(-\frac{4 b^2\sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d x])}+\frac{1}{(a-b)(a+b)}\left(\frac{2\left(2 a^2-b^2\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+8 b\left(-\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]+\frac{b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}\right)-\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}2\left(2 a^2-3 b^2\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2},x,7,0\right\}$$

$$\frac{b\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a\left(a^2-b^2\right)d}+\frac{\left(2 a^2-b^2\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right)d}-\frac{b\left(3 a^2-b^2\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^2(a-b)(a+b)^2 d}-\frac{b\,\text{Sin}[c+d x]}{\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{4\,d}\left(\frac{4\,b\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{\left(-a^2+b^2\right)\left(b+a\,\text{Cos}[c+d\,x]\right)}-\frac{1}{(-a+b)\,(a+b)}\left(8\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\frac{10\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}-\frac{1}{a^2\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]+\left(a^2-2\,b^2\right)\text{EllipticPi}\left[-\frac{a}{b},\,-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]\right)\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$-\frac{\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{\left(a^2-b^2\right)d}-\frac{b\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,\left(a^2-b^2\right)d}+\frac{\left(a^2+b^2\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a\,(a-b)\,(a+b)^2\,d}+\frac{a\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,d}\left(\frac{4\,a\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)\left(b+a\,\text{Cos}[c+d\,x]\right)}-\frac{1}{a\,(a-b)\,(a+b)}\left(-\frac{2\,a^2\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}+4\,b\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}\right)+\frac{1}{b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\left(-2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]+2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]-\left(a^2-2\,b^2\right)\text{EllipticPi}\left[-\frac{a}{b},\,-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]\right)\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$\frac{a\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{b\,\left(a^2-b^2\right)d}+\frac{\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{\left(a^2-b^2\right)d}+\frac{\left(a^2-3\,b^2\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{(a-b)\,b\,(a+b)^2\,d}-\frac{a^2\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,b\,d}\left(\frac{4\,a^2\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])}+\frac{1}{(a-b)\,(a+b)}\right.$$
$$\left(\frac{2\,\left(3\,a^2-4\,b^2\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}+4\,b\,\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}\right)+\right.$$
$$\frac{1}{b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,\left(-2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]+2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]-\right.$$
$$\left.\left.\left.\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\,-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]\right)\,\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$
$$-\frac{\left(3\,a^2-2\,b^2\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{b^2\,\left(a^2-b^2\right)\,d}-\frac{a\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{b\,\left(a^2-b^2\right)\,d}-$$
$$\frac{a\,\left(3\,a^2-5\,b^2\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{(a-b)\,b^2\,(a+b)^2\,d}+\frac{\left(3\,a^2-2\,b^2\right)\,\text{Sin}[c+d\,x]}{b^2\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{a^2\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,b^2\,d}\left(-\frac{1}{(a-b)\,(a+b)}\left(\frac{2\,\left(9\,a^3-10\,a\,b^2\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}+\right.\right.$$
$$\frac{\left(8\,a^2\,b-4\,b^3\right)\,\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}\right)}{a}-\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}$$
$$2\,\left(3\,a^2-2\,b^2\right)\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]+\right.$$
$$\left.\left.\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\,-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]\right)\,\text{Sin}[c+d\,x]\right)+$$
$$\left.4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(\frac{a^3\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)\,(b+a\,\text{Cos}[c+d\,x])}+2\,\text{Tan}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}}{(a+b\,\text{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$-\frac{b\left(24a^4-65a^2b^2+35b^4\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{4a^4\left(a^2-b^2\right)^2d}+\frac{\left(8a^6+128a^4b^2-223a^2b^4+105b^6\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{12a^5\left(a^2-b^2\right)^2d}-$$

$$\frac{b^3\left(63a^4-86a^2b^2+35b^4\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{4a^5(a-b)^2(a+b)^3d}+\frac{\left(8a^4-61a^2b^2+35b^4\right)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{12a^3\left(a^2-b^2\right)^2d}+$$

$$\frac{b^2\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{2a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+dx])^2}+\frac{b^2\left(13a^2-7b^2\right)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{4a^2\left(a^2-b^2\right)^2d\,(a+b\,\text{Sec}[c+dx])}$$

$$\frac{1}{48a^3d}\left(\frac{4\sqrt{\text{Cos}[c+dx]}\left(4a^6-57a^2b^4+35b^6+ab\left(16a^4-83a^2b^2+49b^4\right)\text{Cos}[c+dx]+4\left(a^3-ab^2\right)^2\text{Cos}[2(c+dx)]\right)\text{Sin}[c+dx]}{\left(a^2-b^2\right)^2(b+a\,\text{Cos}[c+dx])^2}+\right.$$

$$\frac{1}{(a-b)^2(a+b)^2}\left(-\frac{2\left(56a^4b-73a^2b^3+35b^5\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a+b}+\right.$$

$$\frac{16\left(2a^4+14a^2b^2-7b^4\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\right)}{a+b}+$$

$$\frac{1}{a^2\sqrt{\text{Sin}[c+dx]^2}}6\left(24a^4-65a^2b^2+35b^4\right)\left(2ab\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]-2b(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]+\left(a^2-2b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]\right)\text{Sin}[c+dx]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+dx]}}{(a+b\,\text{Sec}[c+dx])^3},x,8,0\right\}$$

$$\frac{\left(8a^4-29a^2b^2+15b^4\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{4a^3\left(a^2-b^2\right)^2d}-$$

$$\frac{3b\left(8a^4-11a^2b^2+5b^4\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{4a^4\left(a^2-b^2\right)^2d}+\frac{b^2\left(35a^4-38a^2b^2+15b^4\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{4a^4(a-b)^2(a+b)^3d}+$$

$$\frac{b^2\,\text{Sin}[c+dx]}{2a\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2}+\frac{b^2\left(11a^2-5b^2\right)\text{Sin}[c+dx]}{4a^2\left(a^2-b^2\right)^2d\sqrt{\text{Cos}[c+dx]}\,(a+b\,\text{Sec}[c+dx])}$$

$$\frac{1}{16 a^2 d}\left(\frac{4 b^2 \sqrt{\text{Cos}[c+d x]}\left(11 a^2 b-5 b^3+a\left(13 a^2-7 b^2\right)\text{Cos}[c+d x]\right)\text{Sin}[c+d x]}{\left(a^2-b^2\right)^2(b+a\,\text{Cos}[c+d x])^2}+\right.$$
$$\frac{1}{(a-b)^2(a+b)^2}\left(\frac{2\left(8 a^4-7 a^2 b^2+5 b^4\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}-\right.$$
$$\frac{16\left(4 a^2 b-b^3\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$
$$\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}2\left(8 a^4-29 a^2 b^2+15 b^4\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\right.$$
$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3},x,8,0\right\}$$
$$\frac{3 b\left(3 a^2-b^2\right)\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a^2\left(a^2-b^2\right)^2 d}+$$
$$\frac{\left(8 a^4-5 a^2 b^2+3 b^4\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a^3\left(a^2-b^2\right)^2 d}-\frac{3 b\left(5 a^4-2 a^2 b^2+b^4\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^3(a-b)^2(a+b)^3 d}-$$
$$\frac{b\,\text{Sin}[c+d x]}{2\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2}-\frac{b\left(7 a^2-b^2\right)\text{Sin}[c+d x]}{4 a\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{16 a d}\left(\frac{4 b\sqrt{\text{Cos}[c+d x]}\left(-7 a^2 b+b^3+\left(-9 a^3+3 a b^2\right)\text{Cos}[c+d x]\right)\text{Sin}[c+d x]}{\left(a^2-b^2\right)^2(b+a\,\text{Cos}[c+d x])^2}+\right.$$
$$\frac{1}{(a-b)^2(a+b)^2}\left(-\frac{2\left(5 a^2 b+b^3\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$
$$\frac{16\left(2 a^2+b^2\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$
$$\frac{1}{a^2\sqrt{\text{Sin}[c+d x]^2}}6\left(3 a^2-b^2\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\right.$$
$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d x]^{3/2}\,(a+b\,\text{Sec}[c+d x])^3},x,8,0\right\}$$

$$-\frac{\left(5 a^2+b^2\right) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{4 a \left(a^2-b^2\right)^2 d}-\frac{b \left(7 a^2-b^2\right) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{4 a^2 \left(a^2-b^2\right)^2 d}+\frac{\left(3 a^4+10 a^2 b^2-b^4\right) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{4 a^2 (a-b)^2 (a+b)^3 d}+\frac{a \text{Sin}[c+d x]}{2 \left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])^2}+\frac{3 \left(a^2+b^2\right) \text{Sin}[c+d x]}{4 \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{16 d}\left(\frac{4 \sqrt{\text{Cos}[c+d x]} \left(3 b \left(a^2+b^2\right)+a \left(5 a^2+b^2\right) \text{Cos}[c+d x]\right) \text{Sin}[c+d x]}{\left(a^2-b^2\right)^2 (b+a \text{Cos}[c+d x])^2}-\frac{1}{(a-b)^2 (a+b)^2}\left(-\frac{2 \left(a^2+5 b^2\right) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{a+b}+24 b\left(2 \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]-\frac{2 b \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{a+b}\right)-\frac{1}{a^2 b \sqrt{\text{Sin}[c+d x]^2}} 2 \left(5 a^2+b^2\right)\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-2 b (a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]+\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b}, -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]\right) \text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d x]^{5/2} (a+b \text{Sec}[c+d x])^3}, x, 8, 0\right\}$$

$$\frac{\left(a^2+5 b^2\right) \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{4 b \left(a^2-b^2\right)^2 d}+\frac{3 \left(a^2+b^2\right) \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{4 a \left(a^2-b^2\right)^2 d}+\frac{\left(a^4-10 a^2 b^2-3 b^4\right) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{4 a (a-b)^2 b (a+b)^3 d}-\frac{a^2 \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])^2}+\frac{a \left(a^2-7 b^2\right) \text{Sin}[c+d x]}{4 b \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{16 b d}\left(-\frac{4 a \sqrt{\text{Cos}[c+d x]} \left(-a^2 b+7 b^3+a \left(a^2+5 b^2\right) \text{Cos}[c+d x]\right) \text{Sin}[c+d x]}{\left(a^2-b^2\right)^2 (b+a \text{Cos}[c+d x])^2}+\frac{1}{(a-b)^2 (a+b)^2}\left(\frac{6 \left(a^3-3 a b^2\right) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{a+b}+\frac{8 b \left(a^2+2 b^2\right)\left(2 \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]-\frac{2 b \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right]}{a+b}\right)}{a}-\frac{1}{a b \sqrt{\text{Sin}[c+d x]^2}} 2 \left(a^2+5 b^2\right)\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-2 b (a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]+\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b}, -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]\right) \text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$\frac{3\,a\,\left(a^2-3\,b^2\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^2-7\,b^2\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b\,\left(a^2-b^2\right)^2\,d}+\frac{3\,\left(a^4-2\,a^2\,b^2+5\,b^4\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,(a-b)^2\,b^2\,(a+b)^3\,d}-$$

$$\frac{a^2\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2}-\frac{3\,a^2\,\left(a^2-3\,b^2\right)\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16\,b^2\,d}\left(-\frac{4\,a^2\,\sqrt{\text{Cos}[c+d\,x]}\,\left(5\,a^2\,b-11\,b^3+3\,a\,\left(a^2-3\,b^2\right)\,\text{Cos}[c+d\,x]\right)\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])^2}+\right.$$

$$\frac{1}{(a-b)^2\,(a+b)^2}\left(\frac{2\,\left(9\,a^4-19\,a^2\,b^2+16\,b^4\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+\right.$$

$$\frac{16\,b\,\left(a^2-4\,b^2\right)\,\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\right)}{a+b}-$$

$$\frac{1}{b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,6\,\left(a^2-3\,b^2\right)\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 9,\ 0\right\}$$

$$-\frac{\left(15\,a^4-29\,a^2\,b^2+8\,b^4\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^3\,\left(a^2-b^2\right)^2\,d}-\frac{a\,\left(5\,a^2-11\,b^2\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^2\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{a\,\left(15\,a^4-38\,a^2\,b^2+35\,b^4\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,(a-b)^2\,b^3\,(a+b)^3\,d}+\frac{\left(15\,a^4-29\,a^2\,b^2+8\,b^4\right)\,\text{Sin}[c+d\,x]}{4\,b^3\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{a^2\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^2}-\frac{a^2\,\left(5\,a^2-11\,b^2\right)\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16 b^3 d}\left(-\frac{1}{(a-b)^2 (a+b)^2}\left(\frac{2\left(45 a^5-95 a^3 b^2+56 a b^4\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\frac{8 b\left(5 a^4-10 a^2 b^2+2 b^4\right)\left(2 \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-\frac{2 b \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}\right)}{a}-\frac{1}{a b\sqrt{\text{Sin}[c+d x]^2}}2\left(15 a^4-29 a^2 b^2+8 b^4\right)\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b (a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)+4\sqrt{\text{Cos}[c+d x]}\left(\frac{a^3\left(9 a^2 b-15 b^3+a\left(7 a^2-13 b^2\right)\text{Cos}[c+d x]\right)\text{Sin}[c+d x]}{\left(a^2-b^2\right)^2 (b+a \text{Cos}[c+d x])^2}+8 \text{Tan}[c+d x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \text{Sec}[c+d x])^{3/2}}{\sqrt{\text{Cos}[c+d x]}},x,10,0\right\}$$

$$-\frac{b (a+b)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+\frac{\left(2 a^2+b^2\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+\frac{3 a b\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticPi}\left[2,\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+\frac{b\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{d\sqrt{\text{Cos}[c+d x]}}$$

$$\frac{b\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{d\,(b+a\,\text{Cos}[c+d\,x])}+$$

$$\frac{1}{4\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}}\,a\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(\frac{8\,a\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.$$

$$\frac{10\,b\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\left(2\,i\sqrt{\frac{a-a\,\text{Cos}[c+d\,x]}{a+b}}\sqrt{\frac{a+a\,\text{Cos}[c+d\,x]}{a-b}}\right.$$

$$\text{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\text{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\sqrt{1-\text{Cos}[c+d\,x]^2}\sqrt{\frac{a^2-a^2\,\text{Cos}[c+d\,x]^2}{a^2}}\left(-a^2+2\,b^2-4\,b\,(b+a\,\text{Cos}[c+d\,x])+2\,(b+a\,\text{Cos}[c+d\,x])^2\right)\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2},\,x,\,10,\,0\right\}$$

$$\frac{14\,a\,b\,(a+b)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a\left(a^2+2\,b^2\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a^2\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{6\,d}\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}}\,2\left(\frac{2\,a\,\left(a^2+9\,b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{b\,\left(7\,a^2+6\,b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{1}{\sqrt{\frac{1}{a-b}}}\,7\,i\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}$$

$$\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}\;\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a^2\,\mathrm{Sin}[c+d\,x]}{(b+a\,\mathrm{Cos}[c+d\,x])^2}\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{5/2},\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\,\left(2\,a^2-b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{b\,\left(4\,a^2+b^2\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{5\,a\,b^2\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{b^2\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{4\,d}\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}}\,2\,a\,\mathrm{Cos}[c+d\,x]\left(\frac{12\,a\,b\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(2\,a^2+9\,b^2\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{1}{a^2\,\sqrt{\frac{1}{a-b}}\,b}\,i\,\left(2\,a^2-b^2\right)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}$$

$$\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}\,\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,b^2\,\mathrm{Sin}[c+d\,x]}{(b+a\,\mathrm{Cos}[c+d\,x])^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{1}{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$\frac{2\,a\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{(a-b)\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,a^2\,\mathrm{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\left(\frac{1}{(a-b)\,(a+b)}\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(\frac{4\,a\,b\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(3\,a^2-2\,b^2\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{1}{\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}$$

$$\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]\,\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\,\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\text{EllipticPi}\left[1-\frac{a}{b},\right.\right.$$

$$\left.\left.\left.\left.i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a^2\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{-a^2+b^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{1}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,11,\,0\right\}$$

$$\frac{2\,a\,\left(3\,a^2-7\,b^2\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,(a-b)^2\,b^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,a\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,b\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,a^2\,\text{Sin}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}-\frac{2\,a^2\,\left(3\,a^2-7\,b^2\right)\,\text{Sin}[c+d\,x]}{3\,b^2\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$\left(\frac{1}{(a-b)^2\,b^2\,(a+b)^2}\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\left(\frac{8\,a\,b\,(a^2-3\,b^2)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,(9\,a^4-19\,a^2\,b^2+6\,b^4)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,(3\,a^2-7\,b^2)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+$$

$$\left.\frac{4\,a^2\,(b+a\,\text{Cos}[c+d\,x])\,\left(-4\,a^2\,b+8\,b^3+(-3\,a^3+7\,a\,b^2)\,\text{Cos}[c+d\,x]\right)\,\text{Sin}[c+d\,x]}{(-a^2\,b+b^3)^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,5,\,0\}$$

$$\frac{(4\,a\,A+3\,b\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,(A\,b+a\,B)\,\text{Tan}[c+d\,x]}{3\,d}+$$

$$\frac{(4\,a\,A+3\,b\,B)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{(A\,b+a\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{b\,B\,\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 b B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 b B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{b B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 b B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 b B}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{2 A b \text{Tan}[c+d x]}{3 d}+\frac{2 a B \text{Tan}[c+d x]}{3 d}+\frac{A b \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}+\frac{a B \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d x]\,(a+b\,\text{Sec}[c+d x])\,(A+B\,\text{Sec}[c+d x]),\ x,\ 3,\ 0\}$$

$$\frac{(2 a A+b B)\,\text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{(A b+a B)\,\text{Tan}[c+d x]}{d}+\frac{b B\,\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{2 d}$$

$$\frac{1}{4 d}\left(-2\,(2 a A+b B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$4 a A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+2 b B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$
$$\left.\frac{b B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+4\,(A b+a B)\,\text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b\,\text{Sec}[c+d x])\,(A+B\,\text{Sec}[c+d x]),\ x,\ 2,\ 0\}$$

$$a A x+\frac{(A b+a B)\,\text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{b B\,\text{Tan}[c+d x]}{d}$$

$$\frac{1}{d}\left(a A d x-(A b+a B)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$\left.A b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+a B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+b B\,\text{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]\,(a+b\,\text{Sec}[c+d x])\,(A+B\,\text{Sec}[c+d x]),\ x,\ 3,\ 0\}$$

$$(A b+a B)\,x+\frac{b B\,\text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{a A\,\text{Sin}[c+d x]}{d}$$

$$\frac{A b d x+a B d x-b B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+b B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+a A\,\text{Sin}[c+d x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 5,\ 0\}$$

$$\frac{\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{\left(3\,a^2\,A+2\,A\,b^2+4\,a\,b\,B\right)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{b\,(4\,A\,b+5\,a\,B)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{b\,B\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{48\,d}\left(-6\,\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{3\,b^2\,B}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{12\,a^2\,B+8\,a\,b\,(3\,A+B)+b^2\,(4\,A+9\,B)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,b\,(A\,b+2\,a\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{16\,\left(3\,a^2\,A+2\,A\,b^2+4\,a\,b\,B\right)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-\frac{3\,b^2\,B}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{8\,b\,(A\,b+2\,a\,B)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{12\,a^2\,B+8\,a\,b\,(3\,A+B)+b^2\,(4\,A+9\,B)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{16\,\left(3\,a^2\,A+2\,A\,b^2+4\,a\,b\,B\right)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$a^2\,A\,x+\frac{\left(4\,a\,A\,b+2\,a^2\,B+b^2\,B\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{b\,(2\,A\,b+3\,a\,B)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{b\,B\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(B+A\,\text{Cos}[c+d\,x])}\,\text{Cos}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])\left(4\,a^2\,A\,c+4\,a^2\,A\,d\,x-2\,\left(4\,a\,A\,b+2\,a^2\,B+b^2\,B\right)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+8\,a\,A\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\,a^2\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+2\,b^2\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{b^2\,B}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{b^2\,B}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+4\,b\,(A\,b+2\,a\,B)\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 4,\ 0\}$$

$$a\,(2\,A\,b+a\,B)\,x+\frac{b\,(A\,b+2\,a\,B)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a\,(a\,A-b\,B)\,\text{Sin}[c+d\,x]}{d}+\frac{b\,B\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,(B+A\,\text{Cos}[c+d\,x])}\,\text{Cos}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^2$$
$$(A+B\,\text{Sec}[c+d\,x])\,\Big(2\,a\,A\,b\,c+a^2\,B\,c+2\,a\,A\,b\,d\,x+a^2\,B\,d\,x-A\,b^2\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]-$$
$$2\,a\,b\,B\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]-\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+A\,b^2\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+$$
$$2\,a\,b\,B\,\text{Log}\Big[\text{Cos}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\text{Sin}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big]+a^2\,A\,\text{Sin}[c+d\,x]+b^2\,B\,\text{Tan}[c+d\,x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^3\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,5,\,0\}$$

$$\frac{\left(8\,a^3\,A+12\,a\,A\,b^2+12\,a^2\,b\,B+3\,b^3\,B\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+$$
$$\frac{\left(16\,a^2\,A\,b+4\,A\,b^3+3\,a^3\,B+12\,a\,b^2\,B\right)\,\text{Tan}[c+d\,x]}{6\,d}+\frac{b\,\left(20\,a\,A\,b+6\,a^2\,B+9\,b^2\,B\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{(4\,A\,b+3\,a\,B)\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{B\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\left(\left(-8 a^3 A-12 a A b^2-12 a^2 b B-3 b^3 B\right) \operatorname{Cos}[c+d x]^4 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right] (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x])\right)+$$

$$\left(\left(8 a^3 A+12 a A b^2+12 a^2 b B+3 b^3 B\right) \operatorname{Cos}[c+d x]^4 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right] (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x])\right)+$$

$$\frac{b^3 B \operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])}{16 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+$$

$$\frac{\left(36 a A b^2+4 A b^3+36 a^2 b B+12 a b^2 B+9 b^3 B\right) \operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])}{48 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-$$

$$\frac{b^3 B \operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])}{16 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+$$

$$\frac{\left(-36 a A b^2-4 A b^3-36 a^2 b B-12 a b^2 B-9 b^3 B\right) \operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x])}{48 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$

$$\frac{\operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x]) \left(A b^3 \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+3 a b^2 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}{6 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}+$$

$$\frac{\operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x]) \left(A b^3 \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+3 a b^2 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)}{6 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}+$$

$$\left(\operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x]) \left(9 a^2 A b \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+2 A b^3 \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+3 a^3 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+6 a b^2 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right)+\left(\operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x]) \left(9 a^2 A b \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+2 A b^3 \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+3 a^3 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+6 a b^2 B \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^3 (B+A \operatorname{Cos}[c+d x]) \left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \operatorname{Sec}[c+d x])^3 (A+B \operatorname{Sec}[c+d x]), x, 5, 0\right\}$$

$$a^3 A x+\frac{\left(6 a^2 A b+A b^3+2 a^3 B+3 a b^2 B\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{b \left(15 a A b+11 a^2 B+4 b^2 B\right) \operatorname{Tan}[c+d x]}{6 d}+$$

$$\frac{b (3 A b+5 a B) (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{6 d}+\frac{b B (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{3 d}$$

$$\frac{1}{12\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])}\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\Bigg(12\,a^3\,A\,(c+d\,x)-6\,\left(6\,a^2\,A\,b+A\,b^3+2\,a^3\,B+3\,a\,b^2\,B\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$6\,\left(6\,a^2\,A\,b+A\,b^3+2\,a^3\,B+3\,a\,b^2\,B\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\frac{b^2\,(3\,A\,b+(9\,a+b)\,B)}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{2\,b^3\,B\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+$$

$$\frac{4\,b\,\left(9\,a\,A\,b+9\,a^2\,B+2\,b^2\,B\right)\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}+\frac{2\,b^3\,B\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$

$$\frac{b^2\,(3\,A\,b+(9\,a+b)\,B)}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b\,\left(9\,a\,A\,b+9\,a^2\,B+2\,b^2\,B\right)\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\{\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,5,\,0\}$$

$$\left(3\,a^2\,A\,b+a^3\,B\right)x+\frac{b\,\left(6\,a\,A\,b+6\,a^2\,B+b^2\,B\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{a\,(2\,a\,A-b\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{2\,d}+$$

$$\frac{b\,B\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}-\frac{b\,\left(2\,a^2\,A-2\,A\,b^2-5\,a\,b\,B\right)\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{a^2\,(3\,A\,b+a\,B)\,(c+d\,x)\,\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])}+$$

$$\frac{\left(-6\,a\,A\,b^2-6\,a^2\,b\,B-b^3\,B\right)\mathrm{Cos}[c+d\,x]^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{2\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])}+$$

$$\frac{\left(6\,a\,A\,b^2+6\,a^2\,b\,B+b^3\,B\right)\mathrm{Cos}[c+d\,x]^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{2\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])}+$$

$$\frac{b^3\,B\,\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{4\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-$$

$$\frac{b^3\,B\,\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{4\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left(A\,b^3\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,a\,b^2\,B\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left(A\,b^3\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,a\,b^2\,B\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\frac{a^3\,A\,\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(B+A\,\mathrm{Cos}[c+d\,x])}$$

Valid but unnecessarily complicated antiderivative:

$$\{(a+b\,\mathrm{Sec}[c+d\,x])^4\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,6,\,0\}$$

$$a^4 A x + \frac{\left(32 a^3 A b + 16 a A b^3 + 8 a^4 B + 24 a^2 b^2 B + 3 b^4 B\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} + \frac{b \left(104 a^2 A b + 16 A b^3 + 50 a^3 B + 55 a b^2 B\right) \text{Tan}[c + d x]}{24 d} + \frac{b \left(32 a A b + 26 a^2 B + 9 b^2 B\right) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{24 d} + \frac{b (4 A b + 7 a B) (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{12 d} + \frac{b B (a + b \text{Sec}[c + d x])^3 \text{Tan}[c + d x]}{4 d}$$

$$\frac{1}{96 d (b + a \text{Cos}[c + d x])^4 (B + A \text{Cos}[c + d x])} \text{Cos}[c + d x] (a + b \text{Sec}[c + d x])^4 (A + B \text{Sec}[c + d x]) \Big(36 a^4 A (c + d x) + 48 a^4 A (c + d x) \text{Cos}[2 (c + d x)] + 12 a^4 A (c + d x) \text{Cos}[4 (c + d x)] - 12 \left(32 a^3 A b + 16 a A b^3 + 8 a^4 B + 24 a^2 b^2 B + 3 b^4 B\right) \text{Cos}[c + d x]^4 \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 12 \left(32 a^3 A b + 16 a A b^3 + 8 a^4 B + 24 a^2 b^2 B + 3 b^4 B\right) \text{Cos}[c + d x]^4 \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 48 a A b^3 \text{Sin}[c + d x] + 72 a^2 b^2 B \text{Sin}[c + d x] + 33 b^4 B \text{Sin}[c + d x] + 144 a^2 A b^2 \text{Sin}[2 (c + d x)] + 32 A b^4 \text{Sin}[2 (c + d x)] + 96 a^3 b B \text{Sin}[2 (c + d x)] + 128 a b^3 B \text{Sin}[2 (c + d x)] + 48 a A b^3 \text{Sin}[3 (c + d x)] + 72 a^2 b^2 B \text{Sin}[3 (c + d x)] + 9 b^4 B \text{Sin}[3 (c + d x)] + 72 a^2 A b^2 \text{Sin}[4 (c + d x)] + 8 A b^4 \text{Sin}[4 (c + d x)] + 48 a^3 b B \text{Sin}[4 (c + d x)] + 32 a b^3 B \text{Sin}[4 (c + d x)]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c + d x] (a + b \text{Sec}[c + d x])^4 (A + B \text{Sec}[c + d x]), x, 6, 0\}$$

$$a^3 (4 A b + a B) x + \frac{b \left(12 a^2 A b + A b^3 + 8 a^3 B + 4 a b^2 B\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{a (3 a A - b B) (a + b \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{3 d} + \frac{b B (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{3 d} - \frac{b \left(6 a^3 A - 21 a A b^2 - 26 a^2 b B - 4 b^3 B\right) \text{Tan}[c + d x]}{6 d} - \frac{b \left(6 a^2 A - 3 A b^2 - 8 a b B\right) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{6 d}$$

$$\frac{1}{12 d (b + a \text{Cos}[c + d x])^4 (B + A \text{Cos}[c + d x])} \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^4 (A + B \text{Sec}[c + d x]) \Big(12 a^3 (4 A b + a B) (c + d x) - 6 b \left(12 a^2 A b + A b^3 + 8 a^3 B + 4 a b^2 B\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + 6 b \left(12 a^2 A b + A b^3 + 8 a^3 B + 4 a b^2 B\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] + \frac{b^3 (3 A b + (12 a + b) B)}{\left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} + \frac{2 b^4 B \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^3} + \frac{8 b^2 \left(6 a A b + 9 a^2 B + b^2 B\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]} + \frac{2 b^4 B \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^3} - \frac{b^3 (3 A b + (12 a + b) B)}{\left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} + \frac{8 b^2 \left(6 a A b + 9 a^2 B + b^2 B\right) \text{Sin}\left[\frac{1}{2} (c + d x)\right]}{\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]} + 12 a^4 A \text{Sin}[c + d x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c + d x]^4 (A + B \text{Sec}[c + d x])}{a + b \text{Sec}[c + d x]}, x, 7, 0\right\}$$

$$\frac{\left(2 a^2 A b+A b^3-2 a^3 B-a b^2 B\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 b^4 d}+\frac{2 a^3 (A b-a B) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4 \sqrt{a^2-b^2}\, d}-$$

$$\frac{\left(3 a A b-3 a^2 B-2 b^2 B\right) \text{Tan}[c+d x]}{3 b^3 d}+\frac{(A b-a B) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 b^2 d}+\frac{B \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 b d}$$

$$\frac{1}{12 b^4 d}\left(\frac{24 a^3 (A b-a B) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\sqrt{a^2-b^2}}+6\left(2 a^2+b^2\right)(-A b+a B) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\right.$$

$$6\left(2 a^2+b^2\right)(-A b+a B) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$

$$\frac{b^2 (3 A b+(-3 a+b) B)}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{2 b^3 B \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}+$$

$$\frac{4 b\left(-3 a A b+3 a^2 B+2 b^2 B\right) \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]}+\frac{2 b^3 B \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^3}-$$

$$\left.\frac{b^2 (3 A b+(-3 a+b) B)}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{4 b\left(-3 a A b+3 a^2 B+2 b^2 B\right) \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3 (A+B \text{Sec}[c+d x])}{a+b \text{Sec}[c+d x]}, x, 6, 0\right\}$$

$$-\frac{\left(2 a A b-2 a^2 B-b^2 B\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 b^3 d}-$$

$$\frac{2 a^2 (A b-a B) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3 \sqrt{a^2-b^2}\, d}+\frac{(A b-a B) \text{Tan}[c+d x]}{b^2 d}+\frac{B \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 b d}$$

$$\frac{1}{4 b^3 d}\left(\frac{8 a^2 (-A b+a B) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\sqrt{a^2-b^2}}-2\left(-2 a A b+2 a^2 B+b^2 B\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$

$$2\left(-2 a A b+2 a^2 B+b^2 B\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\frac{b^2 B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$

$$\left.\frac{4 b (A b-a B) \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]}-\frac{b^2 B}{\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{4 b (A b-a B) \text{Sin}\left[\frac{1}{2}(c+d x)\right]}{\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \text{Sec}[c+d x]}{(a+b \text{Sec}[c+d x])^3}, x, 4, 0\right\}$$

$$\frac{A x}{a^3}+\frac{\left(6 a^4 A b-5 a^2 A b^3+2 A b^5-2 a^5 B-a^3 b^2 B\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3 \left(a^2-b^2\right)^{5/2} d}+$$

$$\frac{b (A b-a B) \text{Tan}[c+d x]}{2 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{b \left(5 a^2 A b-2 A b^3-3 a^3 B\right) \text{Tan}[c+d x]}{2 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\left((b+a \text{Cos}[c+d x]) \text{Sec}[c+d x]^2 (A+B \text{Sec}[c+d x]) \left(2 A (c+d x) (b+a \text{Cos}[c+d x])^2-\right.\right.$$

$$\frac{2 \left(-6 a^4 A b+5 a^2 A b^3-2 A b^5+2 a^5 B+a^3 b^2 B\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right] (b+a \text{Cos}[c+d x])^2}{\left(a^2-b^2\right)^{5/2}}+$$

$$\left.\left.\frac{a b^2 (-A b+a B) \text{Sin}[c+d x]}{a^2-b^2}-\frac{a b \left(-6 a^2 A b+3 A b^3+4 a^3 B-a b^2 B\right) (b+a \text{Cos}[c+d x]) \text{Sin}[c+d x]}{\left(a^2-b^2\right)^2}\right)\right) \Big/$$

$$\left(2 a^3 d (B+A \text{Cos}[c+d x]) (a+b \text{Sec}[c+d x])^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4 (A+B \text{Sec}[c+d x])}{(a+b \text{Sec}[c+d x])^4}, x, 7, 0\right\}$$

$$\frac{B \text{ArcTanh}[\text{Sin}[c+d x]]}{b^4 d}+\frac{\left(3 a^2 A b^5+2 A b^7+2 a^7 B-7 a^5 b^2 B+8 a^3 b^4 B-8 a b^6 B\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4 \left(a^2-b^2\right)^{7/2} d}+$$

$$\frac{a (A b-a B) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^3}-\frac{a \left(5 A b^3+3 a^3 B-8 a b^2 B\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{6 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{a \left(4 a^2 A b^3+11 A b^5-6 a^5 B+17 a^3 b^2 B-26 a b^4 B\right) \text{Tan}[c+d x]}{6 b^3 \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{24 b^4 d (B+A \text{Cos}[c+d x])}$$

$$\text{Cos}[c+d x] (A+B \text{Sec}[c+d x]) \left(\frac{24 \left(3 a^2 A b^5+2 A b^7+2 a^7 B-7 a^5 b^2 B+8 a^3 b^4 B-8 a b^6 B\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\left(a^2-b^2\right)^{7/2}}-24 B\right.$$

$$\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+24 B \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\frac{1}{\left(-a^2+b^2\right)^3 (b+a \text{Cos}[c+d x])^3}$$

$$2 a b \left(8 a^4 A b^3+a^2 A b^5+36 A b^7-6 a^7 B-5 a^5 b^2 B+38 a^3 b^4 B-72 a b^6 B-6 a b \left(-a^2 A b^3-9 A b^5+5 a^5 B-15 a^3 b^2 B+20 a b^4 B\right)\right.$$

$$\left.\left.\text{Cos}[c+d x]+a^2 \left(4 a^2 A b^3+11 A b^5-6 a^5 B+17 a^3 b^2 B-26 a b^4 B\right) \text{Cos}[2 (c+d x)]\right) \text{Sin}[c+d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{(a+b\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 5,\ 0\right\}$$

$$\frac{A\,x}{a^4}+\frac{\left(8\,a^6\,A\,b-8\,a^4\,A\,b^3+7\,a^2\,A\,b^5-2\,A\,b^7-2\,a^7\,B-3\,a^5\,b^2\,B\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4\,\left(a^2-b^2\right)^{7/2}\,d}+\frac{b\,(A\,b-a\,B)\,\mathrm{Tan}[c+d\,x]}{3\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{b\,\left(8\,a^2\,A\,b-3\,A\,b^3-5\,a^3\,B\right)\,\mathrm{Tan}[c+d\,x]}{6\,a^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{b\,\left(26\,a^4\,A\,b-17\,a^2\,A\,b^3+6\,A\,b^5-11\,a^5\,B-4\,a^3\,b^2\,B\right)\,\mathrm{Tan}[c+d\,x]}{6\,a^3\,\left(a^2-b^2\right)^3\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{24\,a^4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^3\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\frac{24\,\left(-8\,a^6\,A\,b+8\,a^4\,A\,b^3-7\,a^2\,A\,b^5+2\,A\,b^7+2\,a^7\,B+3\,a^5\,b^2\,B\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])^3}{\left(a^2-b^2\right)^{7/2}}+\right.$$

$$\frac{1}{\left(a^2-b^2\right)^3}\,\Big(36\,a^8\,A\,b\,c-84\,a^6\,A\,b^3\,c+36\,a^4\,A\,b^5\,c+36\,a^2\,A\,b^7\,c-24\,A\,b^9\,c+36\,a^8\,A\,b\,d\,x-84\,a^6\,A\,b^3\,d\,x+$$
$$36\,a^4\,A\,b^5\,d\,x+36\,a^2\,A\,b^7\,d\,x-24\,A\,b^9\,d\,x+18\,a\,A\,\left(a^2-b^2\right)^3\,\left(a^2+4\,b^2\right)\,(c+d\,x)\,\mathrm{Cos}[c+d\,x]+$$
$$36\,a^2\,A\,b\,\left(a^2-b^2\right)^3\,(c+d\,x)\,\mathrm{Cos}[2\,(c+d\,x)]+6\,a^9\,A\,c\,\mathrm{Cos}[3\,(c+d\,x)]-18\,a^7\,A\,b^2\,c\,\mathrm{Cos}[3\,(c+d\,x)]+$$
$$18\,a^5\,A\,b^4\,c\,\mathrm{Cos}[3\,(c+d\,x)]-6\,a^3\,A\,b^6\,c\,\mathrm{Cos}[3\,(c+d\,x)]+6\,a^9\,A\,d\,x\,\mathrm{Cos}[3\,(c+d\,x)]-18\,a^7\,A\,b^2\,d\,x\,\mathrm{Cos}[3\,(c+d\,x)]+$$
$$18\,a^5\,A\,b^4\,d\,x\,\mathrm{Cos}[3\,(c+d\,x)]-6\,a^3\,A\,b^6\,d\,x\,\mathrm{Cos}[3\,(c+d\,x)]+36\,a^7\,A\,b^2\,\mathrm{Sin}[c+d\,x]+72\,a^5\,A\,b^4\,\mathrm{Sin}[c+d\,x]-$$
$$57\,a^3\,A\,b^6\,\mathrm{Sin}[c+d\,x]+24\,a\,A\,b^8\,\mathrm{Sin}[c+d\,x]-18\,a^8\,b\,B\,\mathrm{Sin}[c+d\,x]-39\,a^6\,b^3\,B\,\mathrm{Sin}[c+d\,x]-$$
$$18\,a^4\,b^5\,B\,\mathrm{Sin}[c+d\,x]+120\,a^6\,A\,b^3\,\mathrm{Sin}[2\,(c+d\,x)]-90\,a^4\,A\,b^5\,\mathrm{Sin}[2\,(c+d\,x)]+30\,a^2\,A\,b^7\,\mathrm{Sin}[2\,(c+d\,x)]-$$
$$54\,a^7\,b^2\,B\,\mathrm{Sin}[2\,(c+d\,x)]-6\,a^5\,b^4\,B\,\mathrm{Sin}[2\,(c+d\,x)]+36\,a^7\,A\,b^2\,\mathrm{Sin}[3\,(c+d\,x)]-32\,a^5\,A\,b^4\,\mathrm{Sin}[3\,(c+d\,x)]+$$
$$\left.11\,a^3\,A\,b^6\,\mathrm{Sin}[3\,(c+d\,x)]-18\,a^8\,b\,B\,\mathrm{Sin}[3\,(c+d\,x)]+5\,a^6\,b^3\,B\,\mathrm{Sin}[3\,(c+d\,x)]-2\,a^4\,b^5\,B\,\mathrm{Sin}[3\,(c+d\,x)]\Big)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$-\frac{(4\,A\,b-a\,B)\,x}{a^5}-\frac{b\,\left(20\,a^6\,A\,b-35\,a^4\,A\,b^3+28\,a^2\,A\,b^5-8\,A\,b^7-8\,a^7\,B+8\,a^5\,b^2\,B-7\,a^3\,b^4\,B+2\,a\,b^6\,B\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5\,\left(a^2-b^2\right)^{7/2}\,d}+$$

$$\frac{\left(6\,a^6\,A-65\,a^4\,A\,b^2+68\,a^2\,A\,b^4-24\,A\,b^6+26\,a^5\,b\,B-17\,a^3\,b^3\,B+6\,a\,b^5\,B\right)\,\mathrm{Sin}[c+d\,x]}{6\,a^4\,\left(a^2-b^2\right)^3\,d}+\frac{b\,(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{3\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}+$$

$$\frac{b\,\left(9\,a^2\,A\,b-4\,A\,b^3-6\,a^3\,B+a\,b^2\,B\right)\,\mathrm{Sin}[c+d\,x]}{6\,a^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{b\,\left(12\,a^4\,A\,b-11\,a^2\,A\,b^3+4\,A\,b^5-6\,a^5\,B+2\,a^3\,b^2\,B-a\,b^4\,B\right)\,\mathrm{Sin}[c+d\,x]}{2\,a^3\,\left(a^2-b^2\right)^3\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{24 a^5 d (a+b \operatorname{Sec}[c+d x])^4}$$

$$(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x]^4 \left(\frac{1}{(a^2-b^2)^{7/2}} 24 b \left(-20 a^6 A b+35 a^4 A b^3-28 a^2 A b^5+8 A b^7+8 a^7 B-8 a^5 b^2 B+7 a^3 b^4 B-2 a b^6 B\right)\right.$$

$$\operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right] (b+a \operatorname{Cos}[c+d x])^3+$$

$$\frac{1}{(a^2-b^2)^3}\left(-144 a^8 A b^2 c+336 a^6 A b^4 c-144 a^4 A b^6 c-144 a^2 A b^8 c+96 A b^{10} c+36 a^9 b B c-84 a^7 b^3 B c+36 a^5 b^5 B c+\right.$$

$$36 a^3 b^7 B c-24 a b^9 B c-144 a^8 A b^2 d x+336 a^6 A b^4 d x-144 a^4 A b^6 d x-144 a^2 A b^8 d x+96 A b^{10} d x+36 a^9 b B d x-$$

$$84 a^7 b^3 B d x+36 a^5 b^5 B d x+36 a^3 b^7 B d x-24 a b^9 B d x+18 a (a^2-b^2)^3 (a^2+4 b^2) (-4 A b+a B) (c+d x) \operatorname{Cos}[c+d x]+$$

$$36 a^2 b (a^2-b^2)^3 (-4 A b+a B) (c+d x) \operatorname{Cos}[2 (c+d x)]-24 a^9 A b c \operatorname{Cos}[3 (c+d x)]+72 a^7 A b^3 c \operatorname{Cos}[3 (c+d x)]-$$

$$72 a^5 A b^5 c \operatorname{Cos}[3 (c+d x)]+24 a^3 A b^7 c \operatorname{Cos}[3 (c+d x)]+6 a^{10} B c \operatorname{Cos}[3 (c+d x)]-18 a^8 b^2 B c \operatorname{Cos}[3 (c+d x)]+$$

$$18 a^6 b^4 B c \operatorname{Cos}[3 (c+d x)]-6 a^4 b^6 B c \operatorname{Cos}[3 (c+d x)]-24 a^9 A b d x \operatorname{Cos}[3 (c+d x)]+72 a^7 A b^3 d x \operatorname{Cos}[3 (c+d x)]-$$

$$72 a^5 A b^5 d x \operatorname{Cos}[3 (c+d x)]+24 a^3 A b^7 d x \operatorname{Cos}[3 (c+d x)]+6 a^{10} B d x \operatorname{Cos}[3 (c+d x)]-$$

$$18 a^8 b^2 B d x \operatorname{Cos}[3 (c+d x)]+18 a^6 b^4 B d x \operatorname{Cos}[3 (c+d x)]-6 a^4 b^6 B d x \operatorname{Cos}[3 (c+d x)]+$$

$$18 a^9 A b \operatorname{Sin}[c+d x]-90 a^7 A b^3 \operatorname{Sin}[c+d x]-135 a^5 A b^5 \operatorname{Sin}[c+d x]+228 a^3 A b^7 \operatorname{Sin}[c+d x]-$$

$$96 a A b^9 \operatorname{Sin}[c+d x]+36 a^8 b^2 B \operatorname{Sin}[c+d x]+72 a^6 b^4 B \operatorname{Sin}[c+d x]-57 a^4 b^6 B \operatorname{Sin}[c+d x]+$$

$$24 a^2 b^8 B \operatorname{Sin}[c+d x]+6 a^{10} A \operatorname{Sin}[2 (c+d x)]+18 a^8 A b^2 \operatorname{Sin}[2 (c+d x)]-300 a^6 A b^4 \operatorname{Sin}[2 (c+d x)]+$$

$$336 a^4 A b^6 \operatorname{Sin}[2 (c+d x)]-120 a^2 A b^8 \operatorname{Sin}[2 (c+d x)]+120 a^7 b^3 B \operatorname{Sin}[2 (c+d x)]-90 a^5 b^5 B \operatorname{Sin}[2 (c+d x)]+$$

$$30 a^3 b^7 B \operatorname{Sin}[2 (c+d x)]+18 a^9 A b \operatorname{Sin}[3 (c+d x)]-114 a^7 A b^3 \operatorname{Sin}[3 (c+d x)]+125 a^5 A b^5 \operatorname{Sin}[3 (c+d x)]-$$

$$44 a^3 A b^7 \operatorname{Sin}[3 (c+d x)]+36 a^8 b^2 B \operatorname{Sin}[3 (c+d x)]-32 a^6 b^4 B \operatorname{Sin}[3 (c+d x)]+11 a^4 b^6 B \operatorname{Sin}[3 (c+d x)]+$$

$$\left.\left.3 a^{10} A \operatorname{Sin}[4 (c+d x)]-9 a^8 A b^2 \operatorname{Sin}[4 (c+d x)]+9 a^6 A b^4 \operatorname{Sin}[4 (c+d x)]-3 a^4 A b^6 \operatorname{Sin}[4 (c+d x)]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]^2 (A+B \operatorname{Sec}[c+d x])}{(a+b \operatorname{Sec}[c+d x])^4}, x, 8, 0\right\}$$

$$\frac{(a^2 A+20 A b^2-8 a b B) x}{2 a^6}+$$

$$\frac{b^2 (40 a^6 A b-84 a^4 A b^3+69 a^2 A b^5-20 A b^7-20 a^7 B+35 a^5 b^2 B-28 a^3 b^4 B+8 a b^6 B) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^6 (a^2-b^2)^{7/2} d}-$$

$$\frac{(24 a^6 A b-146 a^4 A b^3+167 a^2 A b^5-60 A b^7-6 a^7 B+65 a^5 b^2 B-68 a^3 b^4 B+24 a b^6 B) \operatorname{Sin}[c+d x]}{6 a^5 (a^2-b^2)^3 d}+$$

$$\frac{(a^6 A-23 a^4 A b^2+27 a^2 A b^4-10 A b^6+12 a^5 b B-11 a^3 b^3 B+4 a b^5 B) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{2 a^4 (a^2-b^2)^3 d}+$$

$$\frac{b (A b-a B) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{3 a (a^2-b^2) d (a+b \operatorname{Sec}[c+d x])^3}+\frac{b (10 a^2 A b-5 A b^3-7 a^3 B+2 a b^2 B) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{6 a^2 (a^2-b^2)^2 d (a+b \operatorname{Sec}[c+d x])^2}+$$

$$\frac{b (48 a^4 A b-53 a^2 A b^3+20 A b^5-27 a^5 B+20 a^3 b^2 B-8 a b^4 B) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{6 a^3 (a^2-b^2)^3 d (a+b \operatorname{Sec}[c+d x])}$$

$$\left(b^2\left(-40a^6Ab+84a^4Ab^3-69a^2Ab^5+20Ab^7+20a^7B-35a^5b^2B+28a^3b^4B-8ab^6B\right)\right.$$

$$\left.\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{a^2-b^2}}\right](b+a\,\text{Cos}[c+dx])^4\,\text{Sec}[c+dx]^4\right)\Big/$$

$$\left(a^6\sqrt{a^2-b^2}\left(-a^2+b^2\right)^3 d\,(a+b\,\text{Sec}[c+dx])^4\right)+\frac{1}{96a^6\left(a^2-b^2\right)^3 d\,(a+b\,\text{Sec}[c+dx])^4}$$

$$(b+a\,\text{Cos}[c+dx])\,\text{Sec}[c+dx]^4\left(72a^{10}Ab(c+dx)+1272a^8Ab^3(c+dx)-3288a^6Ab^5(c+dx)+1512a^4Ab^7(c+dx)+\right.$$
$$1392a^2Ab^9(c+dx)-960Ab^{11}(c+dx)-576a^9b^2B(c+dx)+1344a^7b^4B(c+dx)-576a^5b^6B(c+dx)-$$
$$576a^3b^8B(c+dx)+384ab^{10}B(c+dx)+36a^{11}A(c+dx)\,\text{Cos}[c+dx]+756a^9Ab^2(c+dx)\,\text{Cos}[c+dx]+$$
$$396a^7Ab^4(c+dx)\,\text{Cos}[c+dx]-6084a^5Ab^6(c+dx)\,\text{Cos}[c+dx]+7776a^3Ab^8(c+dx)\,\text{Cos}[c+dx]-$$
$$2880aAb^{10}(c+dx)\,\text{Cos}[c+dx]-288a^{10}bB(c+dx)\,\text{Cos}[c+dx]-288a^8b^3B(c+dx)\,\text{Cos}[c+dx]+$$
$$2592a^6b^5B(c+dx)\,\text{Cos}[c+dx]-3168a^4b^7B(c+dx)\,\text{Cos}[c+dx]+1152a^2b^9B(c+dx)\,\text{Cos}[c+dx]+$$
$$72a^{10}Ab(c+dx)\,\text{Cos}[2(c+dx)]+1224a^8Ab^3(c+dx)\,\text{Cos}[2(c+dx)]-4104a^6Ab^5(c+dx)\,\text{Cos}[2(c+dx)]+$$
$$4248a^4Ab^7(c+dx)\,\text{Cos}[2(c+dx)]-1440a^2Ab^9(c+dx)\,\text{Cos}[2(c+dx)]-576a^9b^2B(c+dx)\,\text{Cos}[2(c+dx)]+$$
$$1728a^7b^4B(c+dx)\,\text{Cos}[2(c+dx)]-1728a^5b^6B(c+dx)\,\text{Cos}[2(c+dx)]+576a^3b^8B(c+dx)\,\text{Cos}[2(c+dx)]+$$
$$12a^{11}A(c+dx)\,\text{Cos}[3(c+dx)]+204a^9Ab^2(c+dx)\,\text{Cos}[3(c+dx)]-684a^7Ab^4(c+dx)\,\text{Cos}[3(c+dx)]+$$
$$708a^5Ab^6(c+dx)\,\text{Cos}[3(c+dx)]-240a^3Ab^8(c+dx)\,\text{Cos}[3(c+dx)]-96a^{10}bB(c+dx)\,\text{Cos}[3(c+dx)]+$$
$$288a^8b^3B(c+dx)\,\text{Cos}[3(c+dx)]-288a^6b^5B(c+dx)\,\text{Cos}[3(c+dx)]+96a^4b^7B(c+dx)\,\text{Cos}[3(c+dx)]+$$
$$6a^{11}A\,\text{Sin}[c+dx]-270a^9Ab^2\,\text{Sin}[c+dx]+750a^7Ab^4\,\text{Sin}[c+dx]+1086a^5Ab^6\,\text{Sin}[c+dx]-2232a^3Ab^8\,\text{Sin}[c+dx]+$$
$$960aAb^{10}\,\text{Sin}[c+dx]+72a^{10}bB\,\text{Sin}[c+dx]-360a^8b^3B\,\text{Sin}[c+dx]-540a^6b^5B\,\text{Sin}[c+dx]+912a^4b^7B\,\text{Sin}[c+dx]-$$
$$384a^2b^9B\,\text{Sin}[c+dx]-60a^{10}Ab\,\text{Sin}[2(c+dx)]-372a^8Ab^3\,\text{Sin}[2(c+dx)]+2772a^6Ab^5\,\text{Sin}[2(c+dx)]-$$
$$3300a^4Ab^7\,\text{Sin}[2(c+dx)]+1200a^2Ab^9\,\text{Sin}[2(c+dx)]+24a^{11}B\,\text{Sin}[2(c+dx)]+72a^9b^2B\,\text{Sin}[2(c+dx)]-$$
$$1200a^7b^4B\,\text{Sin}[2(c+dx)]+1344a^5b^6B\,\text{Sin}[2(c+dx)]-480a^3b^8B\,\text{Sin}[2(c+dx)]+9a^{11}A\,\text{Sin}[3(c+dx)]-$$
$$279a^9Ab^2\,\text{Sin}[3(c+dx)]+1143a^7Ab^4\,\text{Sin}[3(c+dx)]-1253a^5Ab^6\,\text{Sin}[3(c+dx)]+440a^3Ab^8\,\text{Sin}[3(c+dx)]+$$
$$72a^{10}bB\,\text{Sin}[3(c+dx)]-456a^8b^3B\,\text{Sin}[3(c+dx)]+500a^6b^5B\,\text{Sin}[3(c+dx)]-176a^4b^7B\,\text{Sin}[3(c+dx)]-$$
$$30a^{10}Ab\,\text{Sin}[4(c+dx)]+90a^8Ab^3\,\text{Sin}[4(c+dx)]-90a^6Ab^5\,\text{Sin}[4(c+dx)]+30a^4Ab^7\,\text{Sin}[4(c+dx)]+$$
$$12a^{11}B\,\text{Sin}[4(c+dx)]-36a^9b^2B\,\text{Sin}[4(c+dx)]+36a^7b^4B\,\text{Sin}[4(c+dx)]-12a^5b^6B\,\text{Sin}[4(c+dx)]+$$
$$\left.3a^{11}A\,\text{Sin}[5(c+dx)]-9a^9Ab^2\,\text{Sin}[5(c+dx)]+9a^7Ab^4\,\text{Sin}[5(c+dx)]-3a^5Ab^6\,\text{Sin}[5(c+dx)]\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+dx]^4\sqrt{a+b\,\text{Sec}[c+dx]}\,(A+B\,\text{Sec}[c+dx]),\ x,\ 9,\ 0\right\}$$

$$-\left(2\,(a+b)\,\left(24\,a^3\,A\,b+57\,a\,A\,b^3-16\,a^4\,B-24\,a^2\,b^2\,B+147\,b^4\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(315\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{315\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(24\,a^3\,A\,b+6\,a^2\,A\,b^2+57\,a\,A\,b^3+75\,A\,b^4-16\,a^4\,B-4\,a^3\,b\,B-24\,a^2\,b^2\,B+111\,a\,b^3\,B+147\,b^4\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\,\left(24\,a^3\,A\,b+57\,a\,A\,b^3-16\,a^4\,B-24\,a^2\,b^2\,B+147\,b^4\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^4\,d}-$$

$$\frac{2\,\left(12\,a^2\,A\,b-75\,A\,b^3-8\,a^3\,B-13\,a\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^3\,d}+$$

$$\frac{2\,\left(9\,a\,A\,b-6\,a^2\,B+49\,b^2\,B\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^2\,d}+$$

$$\frac{2\,(9\,A\,b+a\,B)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{63\,b\,d}+$$

$$\frac{2\,B\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\left(2\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\left((a+b)\left(-24\,a^3\,A\,b-57\,a\,A\,b^3+16\,a^4\,B+24\,a^2\,b^2\,B-147\,b^4\,B\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+b\,(a+b)\left(-16\,a^3\,B+12\,a^2\,b\,(2\,A+B)-18\,a\,b^2\,(A+2\,B)+3\,b^3\,(25\,A+49\,B)\right)\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+\left(-24\,a^3\,A\,b-57\,a\,A\,b^3+16\,a^4\,B+24\,a^2\,b^2\,B-147\,b^4\,B\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(b-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^2\right)\right)\right)\Big/$$

$$\left(315\,b^4\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)+\frac{1}{d}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\left(\frac{2\left(24\,a^3\,A\,b+57\,a\,A\,b^3-16\,a^4\,B-24\,a^2\,b^2\,B+147\,b^4\,B\right)\mathrm{Sin}[c+d\,x]}{315\,b^4}+\frac{2\,\mathrm{Sec}[c+d\,x]^3\,(9\,A\,b\,\mathrm{Sin}[c+d\,x]+a\,B\,\mathrm{Sin}[c+d\,x])}{63\,b}+\frac{2\,\mathrm{Sec}[c+d\,x]^2\left(9\,a\,A\,b\,\mathrm{Sin}[c+d\,x]-6\,a^2\,B\,\mathrm{Sin}[c+d\,x]+49\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{315\,b^2}+\frac{2\,\mathrm{Sec}[c+d\,x]\left(-12\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+75\,A\,b^3\,\mathrm{Sin}[c+d\,x]+8\,a^3\,B\,\mathrm{Sin}[c+d\,x]+13\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{315\,b^3}+\frac{2}{9}\,B\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^3\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 8,\ 0\right\}$$

$$\frac{2(a+b)\left(14a^2Ab-63Ab^3-8a^3B-19ab^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{105b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$-\left(2\left(14a^2Ab-49aAb^2-63Ab^3-8a^3B-2a^2bB-19ab^2B-25b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-$$

$$\frac{2\left(14a^2Ab-63Ab^3-8a^3B-19ab^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{105b^3d}+$$

$$\frac{2\left(7aAb-4a^2B+25b^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{105b^2d}+$$

$$\frac{2(7Ab+aB)\,\text{Sec}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{35bd}+\frac{2B\,\text{Sec}[c+dx]^2\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{7d}$$

$$\frac{1}{d}\sqrt{a+b\,\text{Sec}[c+dx]}$$

$$\left(\frac{2\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\text{Sin}[c+dx]}{105b^3}+\frac{2\,\text{Sec}[c+dx]^2\left(7Ab\,\text{Sin}[c+dx]+aB\,\text{Sin}[c+dx]\right)}{35b}+\right.$$

$$\left.\frac{2\,\text{Sec}[c+dx]\left(7aAb\,\text{Sin}[c+dx]-4a^2B\,\text{Sin}[c+dx]+25b^2B\,\text{Sin}[c+dx]\right)}{105b^2}+\frac{2}{7}B\,\text{Sec}[c+dx]^2\,\text{Tan}[c+dx]\right)-$$

$$\left(2\left(\frac{2a^2A}{15b\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{3Ab}{5\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{19aB}{105\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\right.\right.$$

$$\frac{8a^3B}{105b^2\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{2aA\sqrt{\text{Sec}[c+dx]}}{15\sqrt{b+a\text{Cos}[c+dx]}}+\frac{2a^3A\sqrt{\text{Sec}[c+dx]}}{15b^2\sqrt{b+a\text{Cos}[c+dx]}}-$$

$$\frac{8a^4B\sqrt{\text{Sec}[c+dx]}}{105b^3\sqrt{b+a\text{Cos}[c+dx]}}-\frac{17a^2B\sqrt{\text{Sec}[c+dx]}}{105b\sqrt{b+a\text{Cos}[c+dx]}}+\frac{5bB\sqrt{\text{Sec}[c+dx]}}{21\sqrt{b+a\text{Cos}[c+dx]}}-\frac{3aA\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{5\sqrt{b+a\text{Cos}[c+dx]}}+$$

$$\left.\frac{2a^3A\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{15b^2\sqrt{b+a\text{Cos}[c+dx]}}-\frac{8a^4B\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{105b^3\sqrt{b+a\text{Cos}[c+dx]}}-\frac{19a^2B\,\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{105b\sqrt{b+a\text{Cos}[c+dx]}}\right)$$

$$\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}$$

$$\left(2(a+b)\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b (a+b)\left(8 a^2 B-2 a b (7 A+3 B)+b^2 (63 A+25 B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(-14 a^2 A b+63 A b^3+8 a^3 B+19 a b^2 B\right)\text{Cos}[c+d x](b+a \text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(105 b^3 d (b+a \text{Cos}[c+d x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\text{Sec}[c+d x]}$$

$$\Bigg(-\frac{1}{105 b^3 (b+a \text{Cos}[c+d x])^{3/2}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}a\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\,\text{Sin}[c+d x]$$

$$\Bigg(2(a+b)\left(-14 a^2 A b+63 A b^3+8 a^3 B+19 a b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b (a+b)\left(8 a^2 B-2 a b (7 A+3 B)+b^2 (63 A+25 B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(-14 a^2 A b+63 A b^3+8 a^3 B+19 a b^2 B\right)\text{Cos}[c+d x](b+a \text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)+$$

$$\frac{1}{105 b^3\sqrt{b+a \text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\Bigg(2(a+b)\left(-14 a^2 A b+63 A b^3+8 a^3 B+19 a b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-2 b (a+b)\left(8 a^2 B-2 a b (7 A+3 B)+b^2 (63 A+25 B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(-14\,a^2\,A\,b+63\,A\,b^3+8\,a^3\,B+19\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{105\,b^3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\Bigg(\frac{1}{2}\,\left(-14\,a^2\,A\,b+63\,A\,b^3+8\,a^3\,B+19\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,(a+b)\,\left(-14\,a^2\,A\,b+63\,A\,b^3+8\,a^3\,B+19\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)-$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,b\,(a+b)\,\left(8\,a^2\,B-2\,a\,b\,(7\,A+3\,B)+b^2\,(63\,A+25\,B)\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}\,(a+b)\,\left(-14\,a^2\,A\,b+63\,A\,b^3+8\,a^3\,B+19\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}\,b\,(a+b)\,\left(8\,a^2\,B-2\,a\,b\,(7\,A+3\,B)+b^2\,(63\,A+25\,B)\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-$$

$$\frac{a\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\operatorname{Cos}[c+dx]\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sin}[c+dx]\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]-\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)(b+a\operatorname{Cos}[c+dx])\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sin}[c+dx]\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]+\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\operatorname{Cos}[c+dx](b+a\operatorname{Cos}[c+dx])\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2-b(a+b)\left(8a^2B-2ab(7A+3B)+b^2(63A+25B)\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}(a+b)\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)-$$

$$\frac{1}{105b^3\sqrt{b+a\operatorname{Cos}[c+dx]}\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sec}[c+dx]}}$$

$$\Bigg(2(a+b)\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-2b(a+b)\left(8a^2B-2ab(7A+3B)+b^2(63A+25B)\right)\sqrt{\frac{\operatorname{Cos}[c+dx]}{1+\operatorname{Cos}[c+dx]}}\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{(a+b)(1+\operatorname{Cos}[c+dx])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+\left(-14a^2Ab+63Ab^3+8a^3B+19ab^2B\right)\operatorname{Cos}[c+dx](b+a\operatorname{Cos}[c+dx])\operatorname{Sec}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

$$\left(-\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]\operatorname{Sec}[c+dx]\operatorname{Sin}\left[\frac{1}{2}(c+dx)\right]+\operatorname{Cos}\left[\frac{1}{2}(c+dx)\right]^2\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\operatorname{Sec}[c+dx]^2\sqrt{a+b\operatorname{Sec}[c+dx]}\,(A+B\operatorname{Sec}[c+dx]),\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(5\,a\,A\,b-2\,a^2\,B+9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(5\,a\,A\,b+5\,A\,b^2-2\,a^2\,B+7\,a\,b\,B+9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(5\,a\,A\,b-2\,a^2\,B+9\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^2\,d}+$$

$$\frac{2\,(5\,A\,b+a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,b\,d}+\frac{2\,B\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(\frac{2\,\left(5\,a\,A\,b-2\,a^2\,B+9\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{15\,b^2}+\frac{2\,\text{Sec}[c+d\,x]\,(5\,A\,b\,\text{Sin}[c+d\,x]+a\,B\,\text{Sin}[c+d\,x])}{15\,b}+\frac{2}{5}\,B\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)}{d}+$$

$$\left(2\left(-\frac{a\,A}{3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a^2\,B}{15\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{3\,b\,B}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{a^2\,A\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{A\,b\,\sqrt{\text{Sec}[c+d\,x]}}{3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{2\,a\,B\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^3\,B\,\sqrt{\text{Sec}[c+d\,x]}}{15\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\left.\frac{a^2\,A\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{3\,a\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^3\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)$$

$$\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(2\,(a+b)\,\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,(5\,A\,b-2\,a\,B+9\,b\,B)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(15\,b^2\,d\,(b+a\,\text{Cos}[c+d\,x])\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,\left(\frac{1}{15\,b^2\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.\right.$$

$$a\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}\ \text{Sin}[c+d x]\left(2(a+b)\left(-5 a A b+2 a^2 B-9 b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\right.$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+2 b(a+b)(5 A b-2 a B+9 b B)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(-5 a A b+2 a^2 B-9 b^2 B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)-$$

$$\frac{1}{15 b^2\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\ \text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(2(a+b)\left(-5 a A b+2 a^2 B-9 b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+2 b(a+b)(5 A b-2 a B+9 b B)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.\left(-5 a A b+2 a^2 B-9 b^2 B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)+$$

$$\frac{1}{15 b^2\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}2\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\left(\frac{1}{2}\left(-5 a A b+2 a^2 B-9 b^2 B\right)\text{Cos}[c+d x]\right.$$

$$(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^4+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}(a+b)\left(-5 a A b+2 a^2 B-9 b^2 B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}$$

$$b\,(a+b)\,(5\,A\,b-2\,a\,B+9\,b\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\,(a+b)\,\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\right.$$

$$\left.\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\,b\,(a+b)\,(5\,A\,b-2\,a\,B+9\,b\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)-$$

$$a\,\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+$$

$$\frac{b\,(a+b)\,(5\,A\,b-2\,a\,B+9\,b\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{(a+b)\,\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{1}{15\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}}$$

$$\left(2\,(a+b)\,\left(-5\,a\,A\,b+2\,a^2\,B-9\,b^2\,B\right)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] + 2 b (a+b) (5 A b - 2 a B + 9 b B)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] +$$

$$\left(-5 a A b + 2 a^2 B - 9 b^2 B\right) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}(c+d x)\right] \text{Sec}[c+d x] \text{Sin}\left[\frac{1}{2}(c+d x)\right] + \text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x] \text{Tan}[c+d x]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} (A+B \text{Sec}[c+d x]), x, 6, 0\right\}$$

$$-\frac{2 (a+b) (3 A b + a B) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{3 b d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}} +$$

$$\frac{2 (3 a A + 3 A b + a B + b B) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{3 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}} +$$

$$\frac{2 (3 A b + a B) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 b d} + \frac{2 B \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{3 d}$$

$$\Bigg(\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}} \sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]} (A+B \text{Sec}[c+d x]) \Bigg(-(a+b)$$

$$\left((3 A b + a B) \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right] - b (3 A + B) \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\right)$$

$$\left(\text{Cos}[c+d x] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2} \sqrt{\frac{(b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \text{Sec}[c+d x] -$$

$$(3 A b + a B) \text{Cos}[c+d x] (b+a \text{Cos}[c+d x]) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^4 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3 b d \sqrt{\frac{\text{Cos}[c+d x]}{(1+\text{Cos}[c+d x])^2}} (b+a \text{Cos}[c+d x]) (B+A \text{Cos}[c+d x]) \sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \text{Sec}[c+d x]^{3/2} \sqrt{\frac{\text{Sec}[c+d x]}{1+\text{Sec}[c+d x]}}\Bigg) +$$

$$\frac{\text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} (A+B \text{Sec}[c+d x]) \left(\frac{2 (3 A b + a B) \text{Sin}[c+d x]}{3 b} + \frac{2}{3} B \text{Tan}[c+d x]\right)}{d (B+A \text{Cos}[c+d x])}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{a+b \text{Sec}[c+d x]} (A+B \text{Sec}[c+d x]), x, 7, 0\right\}$$

$$-\frac{2\,(a+b)\,B\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(a\,A-A\,b-a\,B-b\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,a\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,B\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\frac{2\,B\,\mathrm{Cos}[c+d\,x]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{d\,(B+A\,\mathrm{Cos}[c+d\,x])}+$$

$$\left(2\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])\left(a\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.\right.$$

$$b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-2\,a\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+a\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+2\,i\,a\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,a\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-i\,(a-b)\,B\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(A-B)\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left.\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\right)\Big/$$

$$\left(\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,(B+A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right.$$

$$\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,8,\,0\right\}$$

$$\frac{A(a+b)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2(A b+a B-b B)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2(A b+2 a B)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{A\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{d}$$

$$\Bigg(\sqrt{a+b\,\text{Sec}[c+d x]}\Bigg(-a A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2 a A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-a A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+$$

$$A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+2\,i\,A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$4\,i\,a B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$4\,i\,a\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+i\,A\,(a-b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\left.\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\sqrt{a+b\,\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x]),\ x,\ 8,\ 0\right\}$$

$$\frac{(a+b)\,(A\,b+4\,a\,B)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,a\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a\,A-A\,b+4\,b\,B)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A-A\,b^2+4\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{(A\,b+4\,a\,B)\,\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{4\,a\,d}$$

$$\frac{A\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[2\,(c+d\,x)]}{4\,d}+$$

$$\Bigg(\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\;\Bigg(a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$8\,a^2\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$8\,i\,a^2\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-8\,i\,a\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],$$

$$\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$8\,i\,a^2\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(A\,b+4\,a\,B)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,A\,\left(2\,a^2-a\,b-b^2\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4\,a\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{b+a\,\text{Cos}[c+d x]}\,\sqrt{\text{Sec}[c+d x]}\,\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\,(A+B\,\text{Sec}[c+d x]),\,x,\,9,\,0\right\}$$

$$\frac{(a+b)\left(16\,a^2\,A-3\,A\,b^2+6\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{24\,a^2\,d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(14\,a\,A\,b-A\,b^2+12\,a^2\,B-6\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{12\,a\,d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(4\,a^2\,A\,b+A\,b^3+8\,a^3\,B-2\,a\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,a^2\,d\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{(A\,b+6\,a\,B)\,\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{12\,a\,d}+\frac{A\,\text{Cos}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3\,d}+$$

$$\frac{\left(16\,a^2\,A-3\,A\,b^2+6\,a\,b\,B\right)\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24\,a^2\,d}$$

$$\frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(\frac{1}{12}\,A\,\mathrm{Sin}[c+d\,x]+\frac{(A\,b+6\,a\,B)\,\mathrm{Sin}[2\,(c+d\,x)]}{24\,a}+\frac{1}{12}\,A\,\mathrm{Sin}[3\,(c+d\,x)]\right)}{d}+$$

$$\left(\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left(-16\,a^3\,A\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-16\,a^2\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,a\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.$$

$$3\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$32\,a^3\,A\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-6\,a\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+12\,a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$16\,a^3\,A\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+16\,a^2\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+3\,a\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$3\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-6\,a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+6\,a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$24\,i\,a^2\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$6\,i\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+48\,i\,a^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$12\,i\,a\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^2\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$6\,i\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$12\,i\,a\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\left(16\,a^2\,A-3\,A\,b^2+6\,a\,b\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\left(-3\,A\,b^2-2\,a\,b\,(A-3\,B)+12\,a^2\,B\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24 a^2\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{b+a\,\text{Cos}[c+d x]}\,\sqrt{\text{Sec}[c+d x]}\,\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\{\text{Sec}[c+d x]^2(a+b\,\text{Sec}[c+d x])^{3/2}(A+B\,\text{Sec}[c+d x]),\ x,\ 8,\ 0\}$$

$$-\left(2(a+b)\left(21 a^2 A b+63 A b^3-6 a^3 B+82 a b^2 B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105 b^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\left(2\left(21 a^2 A b+84 a A b^2+63 A b^3-6 a^3 B+51 a^2 b B+82 a b^2 B+25 b^3 B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105 b d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{2\left(21 a^2 A b+63 A b^3-6 a^3 B+82 a b^2 B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{105 b^2 d}+$$

$$\frac{2\left(42 a A b+3 a^2 B+25 b^2 B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{105 b d}+$$

$$\frac{2(7 A b+8 a B)\,\text{Sec}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{35 d}+$$

$$\frac{2 b B\,\text{Sec}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{7 d}$$

$$\frac{1}{d(b+a\,\text{Cos}[c+d x])}\text{Cos}[c+d x](a+b\,\text{Sec}[c+d x])^{3/2}$$

$$\left(-\frac{2\left(-21 a^2 A b-63 A b^3+6 a^3 B-82 a b^2 B\right)\text{Sin}[c+d x]}{105 b^2}+\frac{2}{35}\text{Sec}[c+d x]^2(7 A b\,\text{Sin}[c+d x]+8 a B\,\text{Sin}[c+d x])+\right.$$

$$\frac{2\,\mathrm{Sec}[c+d\,x]\,\left(42\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+3\,a^2\,B\,\mathrm{Sin}[c+d\,x]+25\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{105\,b}+\frac{2}{7}\,b\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]\Bigg)+$$

$$\Bigg(2\,\Bigg(-\frac{a^2\,A}{5\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{3\,A\,b^2}{5\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^3\,B}{35\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{82\,a\,b\,B}{105\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{a^3\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{a\,A\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{31\,a^2\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^4\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{35\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{5\,b^2\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a^3\,A\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{3\,a\,A\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{82\,a^2\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{105\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^4\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{35\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\Bigg)$$

$$\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\left(a+b\,\mathrm{Sec}[c+d\,x]\right)^{3/2}$$

$$\Bigg(2\,(a+b)\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}$$

$$\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,\left(-6\,a^2\,B+3\,a\,b\,(7\,A+19\,B)+b^2\,(63\,A+25\,B)\right)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\,\mathrm{Cos}[c+d\,x]\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(105\,b^2\,d\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)^2\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\mathrm{Sec}[c+d\,x]^{3/2}$$

$$\Bigg(\frac{1}{105\,b^2\,\left(b+a\,\mathrm{Cos}[c+d\,x]\right)^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]$$

$$\left(2\,(a+b)\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,\left(-6\,a^2\,B+3\,a\,b\,(7\,A+19\,B)+b^2\,(63\,A+25\,B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{105\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(2\,(a+b)\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,\left(-6\,a^2\,B+3\,a\,b\,(7\,A+19\,B)+b^2\,(63\,A+25\,B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{105\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(\frac{1}{2}\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+\right.$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}\,(a+b)\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}}b(a+b)\left(-6a^2B+3ab(7A+19B)+b^2(63A+25B)\right)\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}(a+b)\left(-21a^2Ab-63Ab^3+6a^3B-82ab^2B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}b(a+b)\left(-6a^2B+3ab(7A+19B)+b^2(63A+25B)\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)-$$

$$a\left(-21a^2Ab-63Ab^3+6a^3B-82ab^2B\right)\text{Cos}[c+d x]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$\left(-21a^2Ab-63Ab^3+6a^3B-82ab^2B\right)(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$\left(-21a^2Ab-63Ab^3+6a^3B-82ab^2B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{b(a+b)\left(-6a^2B+3ab(7A+19B)+b^2(63A+25B)\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}(a+b)\left(-21a^2Ab-63Ab^3+6a^3B-82ab^2B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)+$$

$$\frac{1}{105\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}}$$

$$\Bigg(2\,(a+b)\,\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,\left(-6\,a^2\,B+3\,a\,b\,(7\,A+19\,B)+b^2\,(63\,A+25\,B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(-21\,a^2\,A\,b-63\,A\,b^3+6\,a^3\,B-82\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\,\left(20\,a\,A\,b+3\,a^2\,B+9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\Bigg(2\,\left(15\,a^2\,A+20\,a\,A\,b+5\,A\,b^2+3\,a^2\,B+12\,a\,b\,B+9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\Bigg)\Big/\left(15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,\left(20\,a\,A\,b+3\,a^2\,B+9\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b\,d}+\frac{2\,(5\,A\,b+3\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}+$$

$$\frac{2\,B\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\left(\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^{3/2}\right.$$

$$(A+B\,\text{Sec}[c+d x])\left(-(a+b)\left(\left(20 a A b+3 a^2 B+9 b^2 B\right)\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-\right.\right.$$

$$\left.b\,(3 a\,(5 A+B)+b\,(5 A+9 B))\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\right)$$

$$\left(\text{Cos}[c+d x]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\,\text{Sec}[c+d x]-$$

$$\left.\left.\left(20 a A b+3 a^2 B+9 b^2 B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^4\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\right)\Big/$$

$$\left(15 b d\sqrt{\frac{\text{Cos}[c+d x]}{(1+\text{Cos}[c+d x])^2}}\,(b+a\,\text{Cos}[c+d x])^2\,(B+A\,\text{Cos}[c+d x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\,\text{Sec}[c+d x]^{5/2}\sqrt{\frac{\text{Sec}[c+d x]}{1+\text{Sec}[c+d x]}}\right)+$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d x])\,(B+A\,\text{Cos}[c+d x])}$$

$$\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{3/2}$$

$$(A+B\,\text{Sec}[c+d x])\left(\frac{2\left(20 a A b+3 a^2 B+9 b^2 B\right)\text{Sin}[c+d x]}{15 b}+\right.$$

$$\left.\frac{2}{15}\text{Sec}[c+d x]\,(5 A b\,\text{Sin}[c+d x]+6 a B\,\text{Sin}[c+d x])+\frac{2}{5}b B\,\text{Sec}[c+d x]\,\text{Tan}[c+d x]\right)$$

Incorrect antiderivative:

$$\left\{(a+b\,\text{Sec}[c+d x])^{3/2}\,(A+B\,\text{Sec}[c+d x]),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,(a+b)\,(3 A b+4 a B)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\left(2\left(3 a^2 A-6 a A b-3 A b^2-3 a^2 B-4 a b B-b^2 B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{4 a^2 A\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\,(3 A b+4 a B)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 d}+\frac{2 b B\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{3 d}$$

$$
\begin{aligned}
&2\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\\
&\Bigg(3\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+4\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+\\
&4\,a\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]-6\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3-8\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3+\\
&3\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+4\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-\\
&4\,a\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+6\,i\,a^2\,A\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\\
&\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}+\\
&6\,i\,a^2\,A\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\\
&\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-\\
&i\,(a-b)\,(3\,A\,b+4\,a\,B)\,\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\\
&\Big(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-\\
&i\,(a-b)\,(3\,a\,(A-B)+b\,(-3\,A+B))\,\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\\
&\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\Big(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}\Bigg)\Bigg)\Big/
\end{aligned}
$$

$$\left(3\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(B+A\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{2}{3}\,(3\,A\,b+4\,a\,B)\,\mathrm{Sin}[c+d\,x]+\frac{2}{3}\,b\,B\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(B+A\,\mathrm{Cos}[c+d\,x])}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 8,\ 0\right\}$$

$$\frac{(a+b)\,(a\,A-2\,b\,B)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\left(2\,a\,A\,b-A\,b^2+a^2\,B-2\,a\,b\,B-b^2\,B\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(3\,A\,b+2\,a\,B)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,b\,B\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}+\frac{(a\,A-2\,b\,B)\,\mathrm{Cos}[c+d\,x]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\frac{2\,b\,B\,\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,(b+a\,\mathrm{Cos}[c+d\,x])}+$$

$$\left((a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(a^2\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.\right.$$

$$a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,a\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$2 a^2 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 4 a b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + a^2 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$a A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 2 a b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$6 i a A b \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 4 i a^2 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$6 i a A b \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$4 i a^2 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i (a-b)(a A-2 b B) \operatorname{EllipticE}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$2 i (a-b)(A b+(a-b) B) \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{3/2}\,(A+B\,\text{Sec}[c+d x]),\ x,\ 8,\ 0\}$$

$$\frac{(a+b)\,(5\,A\,b+4\,a\,B)\,\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(2\,a^2\,A-a\,A\,b+4\,A\,b^2+8\,a\,b\,B-4\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(4\,a^2\,A+3\,A\,b^2+12\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{a\,A\,\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{2\,d}+\frac{(5\,A\,b+4\,a\,B)\,\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{4\,d}$$

$$\frac{a\,A\,\text{Cos}[c+d x]\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Sin}[2\,(c+d x)]}{4\,d\,(b+a\,\text{Cos}[c+d x])}-$$

$$\left((a+b\,\text{Sec}[c+d x])^{3/2}\left(5\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+5\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+4\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.\right.$$

$$4\,a\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-10\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-8\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+$$

$$5\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-5\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+4\,a^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$4\,a\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-8\,i\,a^2\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-24\,i\,a\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$8\,i\,a^2\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(5\,A\,b+4\,a\,B)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\,(2\,a\,A+b\,(A+4\,B))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right.$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\,(A+B\,\text{Sec}[c+d x]),\,x,\,9,\,0\}$$

$$\frac{(a+b)\left(16\,a^2\,A+3\,A\,b^2+30\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24\,a\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(26\,a\,A\,b-7\,A\,b^2+12\,a^2\,B-6\,a\,b\,B+24\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{12\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(12\,a^2\,A\,b-A\,b^3+8\,a^3\,B+6\,a\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4\,a\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{(7\,A\,b+6\,a\,B)\,\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{12\,d}+\frac{a\,A\,\text{Cos}[c+d x]^2\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3\,d}+$$

$$\frac{\left(16\,a^2\,A+3\,A\,b^2+30\,a\,b\,B\right)\text{Cos}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24\,a\,d}$$

$$\frac{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(\frac{1}{12}\,a\,A\,\text{Sin}[c+d\,x]+\frac{1}{24}\,(7\,A\,b+6\,a\,B)\,\text{Sin}[2\,(c+d\,x)]+\frac{1}{12}\,a\,A\,\text{Sin}[3\,(c+d\,x)]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])}+$$

$$\Bigg((a+b\,\text{Sec}[c+d\,x])^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(16\,a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+16\,a^2\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+30\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+30\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$32\,a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-6\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-60\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$16\,a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-16\,a^2\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+3\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+30\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-30\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$72\,i\,a^2\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$6\,i\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-48\,i\,a^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$36\,i\,a\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$72\,i\,a^2\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$6\,i\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$48\,i\,a^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$36\,i\,a\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(16\,a^2\,A+3\,A\,b^2+30\,a\,b\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(3\,A\,b^2+12\,a^2\,B+2\,a\,b\,(5\,A+3\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24\,a\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Incorrect antiderivative:

$$\{\text{Sec}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(A+B\,\text{Sec}[c+d x]),\ x,\ 10,\ 0\}$$

$$\left(2\,(a+b)\left(110\,a^4\,A\,b-3069\,a^2\,A\,b^3-1617\,A\,b^5-40\,a^5\,B-255\,a^3\,b^2\,B-3705\,a\,b^4\,B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3465\,b^3\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)-$$

$$\left(2\left(110\,a^4\,A\,b-1705\,a^3\,A\,b^2-3069\,a^2\,A\,b^3-2871\,a\,A\,b^4-1617\,A\,b^5-40\,a^5\,B-10\,a^4\,b\,B-255\,a^3\,b^2\,B-\right.\right.$$

$$\left.3315\,a^2\,b^3\,B-3705\,a\,b^4\,B-675\,b^5\,B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3465\,b^2\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)-$$

$$\frac{2\left(110\,a^4\,A\,b-3069\,a^2\,A\,b^3-1617\,A\,b^5-40\,a^5\,B-255\,a^3\,b^2\,B-3705\,a\,b^4\,B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3465\,b^3\,d}+$$

$$\frac{2\left(55\,a^3\,A\,b+1793\,a\,A\,b^3-20\,a^4\,B+1025\,a^2\,b^2\,B+675\,b^4\,B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{3465\,b^2\,d}+$$

$$\frac{2\left(825\,a^2\,A\,b+539\,A\,b^3+15\,a^3\,B+1145\,a\,b^2\,B\right)\text{Sec}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{3465\,b\,d}+$$

$$\frac{2\left(209\,a\,A\,b+113\,a^2\,B+81\,b^2\,B\right)\text{Sec}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{693\,d}+$$

$$\frac{2\,b\,(11\,A\,b+14\,a\,B)\,\text{Sec}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{99\,d}+$$

$$\frac{2\,b\,B\,\text{Sec}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Tan}[c+d x]}{11\,d}$$

$$-\left(2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left((a+b)\,\left(-110\,a^4\,A\,b+3069\,a^2\,A\,b^3+1617\,A\,b^5+40\,a^5\,B+255\,a^3\,b^2\,B+3705\,a\,b^4\,B\right)\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$b\,(a+b)\,\left(40\,a^4\,B-10\,a^3\,b\,(11\,A+3\,B)+15\,a^2\,b^2\,(121\,A+19\,B)+3\,b^4\,(539\,A+225\,B)+6\,a\,b^3\,(209\,A+505\,B)\right)$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$\left(-110\,a^4\,A\,b+3069\,a^2\,A\,b^3+1617\,A\,b^5+40\,a^5\,B+255\,a^3\,b^2\,B+3705\,a\,b^4\,B\right)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left.\left.\left(b-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^2\right)\right)\right)\Bigg/$$

$$\left(3465\,b^3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

$$\mathrm{Cos}[c+d\,x]^2$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{2\,\left(-110\,a^4\,A\,b+3069\,a^2\,A\,b^3+1617\,A\,b^5+40\,a^5\,B+255\,a^3\,b^2\,B+3705\,a\,b^4\,B\right)\,\mathrm{Sin}[c+d\,x]}{3465\,b^3}+\right.$$

$$\frac{2}{99}\,\mathrm{Sec}[c+d\,x]^4\,\left(11\,A\,b^2\,\mathrm{Sin}[c+d\,x]+23\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{2}{693}\,\mathrm{Sec}[c+d\,x]^3\,\left(209\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+113\,a^2\,B\,\mathrm{Sin}[c+d\,x]+81\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{2\,\mathrm{Sec}[c+d\,x]^2\,\left(825\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+539\,A\,b^3\,\mathrm{Sin}[c+d\,x]+15\,a^3\,B\,\mathrm{Sin}[c+d\,x]+1145\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{3465\,b}+$$

$$\frac{1}{3465\,b^2}\,2\,\mathrm{Sec}[c+d\,x]\,\left(55\,a^3\,A\,b\,\mathrm{Sin}[c+d\,x]+1793\,a\,A\,b^3\,\mathrm{Sin}[c+d\,x]-20\,a^4\,B\,\mathrm{Sin}[c+d\,x]+\right.$$

$$\left.\left.1025\,a^2\,b^2\,B\,\mathrm{Sin}[c+d\,x]+675\,b^4\,B\,\mathrm{Sin}[c+d\,x]\right)+\frac{2}{11}\,b^2\,B\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,9,\,0\right\}$$

$$-\left(2\,(a+b)\,\left(45\,a^3\,A\,b+435\,a\,A\,b^3-10\,a^4\,B+279\,a^2\,b^2\,B+147\,b^4\,B\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(315\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{315\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(45\,a^3\,A\,b+405\,a^2\,A\,b^2+435\,a\,A\,b^3+75\,A\,b^4-10\,a^4\,B+155\,a^3\,b\,B+279\,a^2\,b^2\,B+261\,a\,b^3\,B+147\,b^4\,B\right)$$

$$\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\,\left(45\,a^3\,A\,b+435\,a\,A\,b^3-10\,a^4\,B+279\,a^2\,b^2\,B+147\,b^4\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^2\,d}+$$

$$\frac{2\,\left(135\,a^2\,A\,b+75\,A\,b^3+5\,a^3\,B+163\,a\,b^2\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b\,d}+$$

$$\frac{2\,\left(135\,a\,A\,b+75\,a^2\,B+49\,b^2\,B\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,d}+$$

$$\frac{2\,b\,(3\,A\,b+4\,a\,B)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{21\,d}+$$

$$\frac{2\,b\,B\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\left(2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left(\left(a+b\right)\left(-45\,a^3\,A\,b-435\,a\,A\,b^3+10\,a^4\,B-279\,a^2\,b^2\,B-147\,b^4\,B\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right.$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$b\,(a+b)\left(-10\,a^3\,B+15\,a^2\,b\,(3\,A+11\,B)+6\,a\,b^2\,(60\,A+19\,B)+3\,b^3\,(25\,A+49\,B)\right)$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+\left(-45\,a^3\,A\,b-435\,a\,A\,b^3+10\,a^4\,B-279\,a^2\,b^2\,B-147\,b^4\,B\right)$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\left(b-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^2\right)\right)\right)\Bigg/$$

$$\left(315\,b^2\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

$$\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{2\left(45\,a^3\,A\,b+435\,a\,A\,b^3-10\,a^4\,B+279\,a^2\,b^2\,B+147\,b^4\,B\right)\mathrm{Sin}[c+d\,x]}{315\,b^2}+\right.$$

$$\frac{2}{63}\,\mathrm{Sec}[c+d\,x]^3\left(9\,A\,b^2\,\mathrm{Sin}[c+d\,x]+19\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{2}{315}\,\mathrm{Sec}[c+d\,x]^2\left(135\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+75\,a^2\,B\,\mathrm{Sin}[c+d\,x]+49\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{2\,\mathrm{Sec}[c+d\,x]\left(135\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+75\,A\,b^3\,\mathrm{Sin}[c+d\,x]+5\,a^3\,B\,\mathrm{Sin}[c+d\,x]+163\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{315\,b}+$$

$$\left.\frac{2}{9}\,b^2\,B\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\ x,\ 8,\ 0\right\}$$

$$-\left(2\,(a+b)\,\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(2\,\left(105\,a^3\,A+161\,a^2\,A\,b+119\,a\,A\,b^2+63\,A\,b^3+15\,a^3\,B+135\,a^2\,b\,B+145\,a\,b^2\,B+25\,b^3\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b\,d}+$$

$$\frac{2\,\left(56\,a\,A\,b+15\,a^2\,B+25\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,d}+$$

$$\frac{2\,(7\,A\,b+5\,a\,B)\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{35\,d}+\frac{2\,B\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,(B+A\,\text{Cos}[c+d\,x])}\,\text{Cos}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\frac{2\,\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\text{Sin}[c+d\,x]}{105\,b}+\frac{2}{35}\,\text{Sec}[c+d\,x]^2\,\left(7\,A\,b^2\,\text{Sin}[c+d\,x]+15\,a\,b\,B\,\text{Sin}[c+d\,x]\right)+\right.$$

$$\left.\frac{2}{105}\,\text{Sec}[c+d\,x]\,\left(77\,a\,A\,b\,\text{Sin}[c+d\,x]+45\,a^2\,B\,\text{Sin}[c+d\,x]+25\,b^2\,B\,\text{Sin}[c+d\,x]\right)+\frac{2}{7}\,b^2\,B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]\right)+$$

$$\left(2\left(-\frac{23\,a^2\,A\,b}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{3\,A\,b^3}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{a^3\,B}{7\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{29\,a\,b^2\,B}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{8\,a^3\,A\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{8\,a\,A\,b^2\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a^4\,B\,\sqrt{\text{Sec}[c+d\,x]}}{7\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\frac{2\,a^2\,b\,B\,\sqrt{\text{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{5\,b^3\,B\,\sqrt{\text{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{23\,a^3\,A\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\left.\frac{3\,a\,A\,b^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a^4\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{7\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{29\,a^2\,b\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)$$

$$\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^{5/2}\ (A+B\,\text{Sec}[c+d x])\ \left(-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\ (1+\text{Cos}[c+d x])}}}\right.$$

$$2\left(\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}\right)^{3/2}\left(\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-\right.$$

$$\left.b\left(15 a^2 (7 A+B)+8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\right)\text{Sec}[c+d x]+$$

$$\left.\left.\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)\Bigg/$$

$$\left(105 b d\ (b+a\,\text{Cos}[c+d x])^2\ (B+A\,\text{Cos}[c+d x])\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\ \text{Sec}[c+d x]^{7/2}\right.$$

$$\left(-\left(a\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \text{Sec}[c+d x]}\ \text{Sin}[c+d x]\left(-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\ (1+\text{Cos}[c+d x])}}}\right.\right.\right.2\left(\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}\right)^{3/2}$$

$$\left(\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-b\left(15 a^2 (7 A+B)+\right.\right.$$

$$\left.\left.8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\right)\text{Sec}[c+d x]+$$

$$\left.\left.\left.\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)\Bigg/$$

$$\left(105 b\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\right)-\frac{1}{105 b\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(-\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\,2\left(\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\right.$$

$$\left(\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-b\left(15\,a^2\,(7\,A+B)+\right.\right.$$

$$\left.\left.8\,a\,b\,(7\,A+15\,B)+b^2\,(63\,A+25\,B)\right)\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)\mathrm{Sec}[c+d\,x]+$$

$$\left.\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)+$$

$$\frac{1}{105\,b\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\left(-\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\right.$$

$$2\left(\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)^{3/2}\left(\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-b\right.$$

$$\left.\left(15\,a^2\,(7\,A+B)+8\,a\,b\,(7\,A+15\,B)+b^2\,(63\,A+25\,B)\right)\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)$$

$$\left.\mathrm{Sec}[c+d\,x]+\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)$$

$$\left(-\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)+$$

$$\frac{1}{105\,b\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}$$

$$\left(-\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\,3\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\left(161\,a^2\,A\,b+63\,A\,b^3+15\,a^3\,B+145\,a\,b^2\,B\right)\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-b\left(15 a^2 (7 A+B)+8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\Bigg)\text{Sec}[c+d x]\left(\frac{\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{(1+\text{Cos}[c+d x])^2}-\frac{\text{Sin}[c+d x]}{1+\text{Cos}[c+d x]}\right)+$$

$$\frac{1}{\left(\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}\right)^{3/2}}\left(\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}\right)^{3/2}\Bigg(\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{EllipticE}\Big[$$

$$\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\Big]-b\left(15 a^2 (7 A+B)+8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)\text{EllipticF}\Big[\text{ArcSin}\Big[$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\frac{a-b}{a+b}\Big]\Bigg)\text{Sec}[c+d x]\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{1}{2}\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}$$

$$2\left(\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}\right)^{3/2}\text{Sec}[c+d x]\Bigg(-\frac{b\left(15 a^2 (7 A+B)+8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+$$

$$\frac{\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)-$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}}2\left(\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}\right)^{3/2}\Bigg(\left(161 a^2 A b+63 A b^3+15 a^3 B+145 a b^2 B\right)\text{EllipticE}\Big[$$

$$\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\Big]-b\left(15 a^2 (7 A+B)+8 a b (7 A+15 B)+b^2 (63 A+25 B)\right)$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\Bigg)\text{Sec}[c+d x]\,\text{Tan}[c+d x]\Bigg)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{(a+b\,\text{Sec}[c+d x])^{5/2}(A+B\,\text{Sec}[c+d x]),\ x,\ 9,\ 0\right\}$$

$$-\frac{2(a+b)\left(35aAb+23a^2B+9b^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{15d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}-$$

$$\left(2\left(15a^3A-45a^2Ab-35aAb^2-5Ab^3-15a^3B-23a^2bB-17ab^2B-9b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(15d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+$$

$$\frac{4a^3A\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}+$$

$$\frac{2\left(35aAb+23a^2B+9b^2B\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{15d}+$$

$$\frac{2b(5Ab+8aB)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{15d}+\frac{2bB(a+b\text{Sec}[c+dx])^{3/2}\text{Tan}[c+dx]}{5d}$$

$$-\left(2(a+b\text{Sec}[c+dx])^{5/2}(A+B\text{Sec}[c+dx])\right.$$

$$\left(-35a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-35aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-23a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-\right.$$

$$23a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-9ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-9b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$70a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+46a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+18ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-$$

$$35a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+35aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-23a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+$$

$$23a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-9ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+9b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-$$

$$30\,i\,a^3A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$30\,i\,a^3\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\left(35\,a\,A\,b+23\,a^2\,B+9\,b^2\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\left(b^2\,(5\,A-9\,B)+15\,a^2\,(A-B)+a\,(-30\,A\,b+8\,b\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(15\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,(B+A\,\text{Cos}[c+d x])\,\text{Sec}[c+d x]^{7/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)+$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d x])^2\,(B+A\,\text{Cos}[c+d x])\,\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(A+B\,\text{Sec}[c+d x])}$$

$$\Bigg(\frac{2}{15}\left(35\,a\,A\,b+23\,a^2\,B+9\,b^2\,B\right)\text{Sin}[c+d x]+\frac{2}{15}\,\text{Sec}[c+d x]\left(5\,A\,b^2\,\text{Sin}[c+d x]+11\,a\,b\,B\,\text{Sin}[c+d x]\right)+\frac{2}{5}\,b^2\,B\,\text{Sec}[c+d x]\,\text{Tan}[c+d x]\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x]\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(A+B\,\text{Sec}[c+d x]),\,x,\,9,\,0\right\}$$

$$\frac{(a+b)\left(3a^2A-6Ab^2-14abB\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(2\left(9a^2Ab-9aAb^2-3Ab^3+3a^3B-9a^2bB-7ab^2B-b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{2a^2(5Ab+2aB)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{a(3aA-2bB)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{3d}+\frac{2bB(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{3d}-$$

$$\frac{\left(3a^2A-6Ab^2-14abB\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3d}$$

$$\left(a+b\,\text{Sec}[c+dx]\right)^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}$$

$$\left(3a^3A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+3a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-6aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-\right.$$

$$6Ab^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-14a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-14ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-$$

$$6a^3A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+12aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+28a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+$$

$$3a^3A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-3a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-6aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+$$

$$6Ab^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-14a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+14ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-$$

$$30\,i\,a^2Ab\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-12\,i\,a^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$30\,i\,a^2\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$12\,i\,a^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(3\,a^2\,A-6\,A\,b^2-14\,a\,b\,B\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(6\,a\,b\,(A-B)+3\,a^2\,B+b^2\,(-3\,A+B)\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg)\Bigg/$$

$$\left(3\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2}{3}\,b\,(3\,A\,b+7\,a\,B)\,\mathrm{Sin}[c+d\,x]+\frac{2}{3}\,b^2\,B\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,9,\,0\right\}$$

$$\frac{(a+b)\left(9aAb+4a^2B-8b^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(\left(2a^3A-a^2Ab+12aAb^2-4Ab^3+12a^2bB-12ab^2B-4b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{a\left(4a^2A+15Ab^2+20abB\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{a(7Ab+4aB)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{4d}+\frac{aA\,\text{Cos}[c+dx](a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{2d}-$$

$$\frac{\left(9aAb+4a^2B-8b^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{4d}$$

$$\frac{\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{5/2}\left(2b^2B\,\text{Sin}[c+dx]+\frac{1}{4}a^2A\,\text{Sin}[2(c+dx)]\right)}{d(b+a\,\text{Cos}[c+dx])^2}+$$

$$\left((a+b\,\text{Sec}[c+dx])^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\left(9a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+9aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+\right.\right.$$

$$4a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+4a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-8ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-$$

$$8b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-18a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-8a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+$$

$$16ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+9a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-9aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+$$

$$4a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-4a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-8ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+$$

$$8b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-8i\,a^3A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$30\,i\,a\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$40\,i\,a^2\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-8\,i\,a^3\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$30\,i\,a\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$40\,i\,a^2\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(9\,a\,A\,b+4\,a^2\,B-8\,b^2\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(2\,a^2\,A+4\,b^2\,(A-B)+a\,b\,(A+8\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(A+B\,\text{Sec}[c+d x]),\ x,\ 9,\ 0\}$$

$$\frac{(a+b)\left(16a^2A+33Ab^2+54abB\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\left(\left(38a^2Ab-13aAb^2+24Ab^3+12a^3B-6a^2bB+72ab^2B-24b^3B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(12\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{\left(20a^2Ab+5Ab^3+8a^3B+30ab^2B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{a(3Ab+2aB)\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{4\,d}+\frac{aA\,\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Sin}[c+d x]}{3\,d}+$$

$$\frac{\left(16a^2A+33Ab^2+54abB\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24\,d}$$

$$\frac{\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(\frac{1}{12}a^2A\,\text{Sin}[c+d x]+\frac{1}{24}a(13Ab+6aB)\,\text{Sin}[2(c+d x)]+\frac{1}{12}a^2A\,\text{Sin}[3(c+d x)]\right)}{d\,(b+a\,\text{Cos}[c+d x])^2}+$$

$$\left((a+b\,\text{Sec}[c+d x])^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\Bigg(16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 33 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] +$$

$$33 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 54 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 54 a b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] -$$

$$32 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 66 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 108 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 +$$

$$16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 33 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$33 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 54 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 54 a b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$120 i a^2 A b \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$30 i A b^3 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 48 i a^3 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$180 i a b^2 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$120 i a^2 A b \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$30\,i\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$48\,i\,a^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$180\,i\,a\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(16\,a^2\,A+33\,A\,b^2+54\,a\,b\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(12\,a^2\,B+3\,b^2\,(3\,A+8\,B)+a\,(22\,A\,b+6\,b\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x]^4\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(A+B\,\text{Sec}[c+d x]),\,x,\,10,\,0\right\}$$

$$\left((a+b)\left(284a^2Ab+15Ab^3+128a^3B+264ab^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(192ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)-$$

$$\left(\left(72a^3A-36a^2Ab+322aAb^2-59Ab^3+304a^2bB-104ab^2B+192b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(96d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+$$

$$\left(\left(48a^4A+120a^2Ab^2-5Ab^4+160a^3bB+40ab^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(32ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+$$

$$\frac{\left(36a^2A+59Ab^2+104abB\right)\text{Cos}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{96d}+$$

$$\frac{a(11Ab+8aB)\text{Cos}[c+dx]^2\sqrt{a+b\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{24d}+$$

$$\frac{aA\text{Cos}[c+dx]^3(a+b\text{Sec}[c+dx])^{3/2}\text{Sin}[c+dx]}{4d}+$$

$$\frac{\left(284a^2Ab+15Ab^3+128a^3B+264ab^2B\right)\text{Cos}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{192ad}$$

$$\frac{1}{d(b+a\text{Cos}[c+dx])^2}\text{Cos}[c+dx]^2(a+b\text{Sec}[c+dx])^{5/2}\left(\frac{1}{96}a(17Ab+8aB)\text{Sin}[c+dx]+\right.$$

$$\left.\frac{1}{192}\left(48a^2A+59Ab^2+104abB\right)\text{Sin}[2(c+dx)]+\frac{1}{96}a(17Ab+8aB)\text{Sin}[3(c+dx)]+\frac{1}{32}a^2A\text{Sin}[4(c+dx)]\right)+$$

$$\left((a+b\text{Sec}[c+dx])^{5/2}\left(-284a^3Ab\sqrt{\frac{-a+b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+dx)\right]-284a^2Ab^2\sqrt{\frac{-a+b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+dx)\right]-\right.\right.$$

$$15aAb^3\sqrt{\frac{-a+b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+dx)\right]-15Ab^4\sqrt{\frac{-a+b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+dx)\right]-128a^4\sqrt{\frac{-a+b}{a+b}}B\text{Tan}\left[\frac{1}{2}(c+dx)\right]-$$

$$128a^3b\sqrt{\frac{-a+b}{a+b}}B\text{Tan}\left[\frac{1}{2}(c+dx)\right]-264a^2b^2\sqrt{\frac{-a+b}{a+b}}B\text{Tan}\left[\frac{1}{2}(c+dx)\right]-264ab^3\sqrt{\frac{-a+b}{a+b}}B\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$568\, a^3 A b \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 30\, a A b^3 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 256\, a^4 \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 +$$

$$528\, a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 284\, a^3 A b \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$284\, a^2 A b^2 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 15\, a A b^3 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 15\, A b^4 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$128\, a^4 \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 128\, a^3 b \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 264\, a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$264\, a b^3 \sqrt{\frac{-a+b}{a+b}}\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 288\, i\, a^4 A\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$720\, i\, a^2 A b^2\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 30\, i\, A b^4\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$960\, i\, a^3 b B\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$240\, i\, a b^3 B\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$288\, i\, a^4 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$720\, i\, a^2 A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$30\, i\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$960\, i\, a^3 b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$240\, i\, a\, b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\, (a-b)\, \left(284\, a^2 A\, b+15\, A\, b^3+128\, a^3 B+264\, a\, b^2 B\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 2\, i\, (a-b)$$

$$\left(72\, a^3 A+15\, A\, b^3+2\, a\, b^2\, (37\, A+36\, B)+4\, a^2 b\, (9\, A+44\, B)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(192\,a\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3\,(A+B\,\text{Sec}[c+d x])}{\sqrt{a+b\,\text{Sec}[c+d x]}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(10\,a\,A\,b-8\,a^2\,B-9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,b^3\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\left(10\,a\,A\,b-5\,A\,b^2-8\,a^2\,B-2\,a\,b\,B-9\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,b^2\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\left(10\,a\,A\,b-8\,a^2\,B-9\,b^2\,B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{15\,b^3\,d}+$$

$$\frac{2\,(5\,A\,b-4\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{15\,b^2\,d}+\frac{2\,B\,\text{Sec}[c+d x]\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{5\,b\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sec}[c+d x]\left(\frac{2\left(-10\,a\,A\,b+8\,a^2\,B+9\,b^2\,B\right)\text{Sin}[c+d x]}{15\,b^3}+\frac{2\,\text{Sec}[c+d x]\,(5\,A\,b\,\text{Sin}[c+d x]-4\,a\,B\,\text{Sin}[c+d x])}{15\,b^2}+\frac{2\,B\,\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{5\,b}\right)}{d\,\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\Bigg(2\Bigg(\frac{2\,a\,A}{3\,b\,\sqrt{b+a\,\text{Cos}[c+d x]}\,\sqrt{\text{Sec}[c+d x]}}-\frac{3\,B}{5\,\sqrt{b+a\,\text{Cos}[c+d x]}\,\sqrt{\text{Sec}[c+d x]}}-\frac{8\,a^2\,B}{15\,b^2\,\sqrt{b+a\,\text{Cos}[c+d x]}\,\sqrt{\text{Sec}[c+d x]}}+$$

$$\frac{A\sqrt{\text{Sec}[c+d\,x]}}{3\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,A\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{8\,a^3\,B\sqrt{\text{Sec}[c+d\,x]}}{15\,b^3\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{7\,a\,B\sqrt{\text{Sec}[c+d\,x]}}{15\,b\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,a^2\,A\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{8\,a^3\,B\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{15\,b^3\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{3\,a\,B\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{5\,b\sqrt{b+a\,\text{Cos}[c+d\,x]}}\Bigg)$$

$$\sqrt{\text{Sec}[c+d\,x]}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\Bigg(-2\,(a+b)\left(-10\,a\,A\,b+8\,a^2\,B+9\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\,b\left(8\,a^2\,B+2\,a\,b\,(-5\,A+B)+b^2\,(5\,A+9\,B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left(-10\,a\,A\,b+8\,a^2\,B+9\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(15\,b^3\,d\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\Bigg(\frac{1}{15\,b^3\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$a\sqrt{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]\Bigg(-2\,(a+b)\left(-10\,a\,A\,b+8\,a^2\,B+9\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+2\,b\left(8\,a^2\,B+2\,a\,b\,(-5\,A+B)+\right.$$

$$\left.b^2\,(5\,A+9\,B)\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left(-10\,a\,A\,b+8\,a^2\,B+9\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{15\,b^3\sqrt{b+a\,\text{Cos}[c+d\,x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\;\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\left(-2(a+b)\left(-10aAb+8a^2B+9b^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+2b\left(8a^2B+2ab(-5A+B)+b^2(5A+9B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left.\left(-10aAb+8a^2B+9b^2B\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)+$$

$$\frac{1}{15b^3\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}}\,2\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}$$

$$\left(-\frac{1}{2}\left(-10aAb+8a^2B+9b^2B\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^4-\frac{1}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}\right.$$

$$(a+b)\left(-10aAb+8a^2B+9b^2B\right)\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(\frac{\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{(1+\text{Cos}[c+dx])^2}-\frac{\text{Sin}[c+dx]}{1+\text{Cos}[c+dx]}\right)+\frac{1}{\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}}b\left(8a^2B+2ab(-5A+B)+b^2(5A+9B)\right)$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+dx]\,\text{Sin}[c+dx]}{(1+\text{Cos}[c+dx])^2}-\right.$$

$$\left.\frac{\text{Sin}[c+dx]}{1+\text{Cos}[c+dx]}\right)-\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}}(a+b)\left(-10aAb+8a^2B+9b^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}+\frac{(b+a\,\text{Cos}[c+dx])\,\text{Sin}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])^2}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}}b\left(8a^2B+2ab(-5A+B)+b^2(5A+9B)\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}$$

$$\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}+\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sin}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])^2}\right)+$$

$$a\left(-10 a A b+8 a^2 B+9 b^2 B\right)\text{Cos}[c+d x]\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$\left(-10 a A b+8 a^2 B+9 b^2 B\right)(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Sin}[c+d x]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$\left(-10 a A b+8 a^2 B+9 b^2 B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{b\left(8 a^2 B+2 a b(-5 A+B)+b^2(5 A+9 B)\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}-$$

$$\left.\frac{(a+b)\left(-10 a A b+8 a^2 B+9 b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)+$$

$$\frac{1}{15 b^3\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]}}$$

$$\left(-2(a+b)\left(-10 a A b+8 a^2 B+9 b^2 B\right)\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+2 b\left(8 a^2 B+2 a b(-5 A+B)+b^2(5 A+9 B)\right)$$

$$\sqrt{\frac{\text{Cos}[c+d x]}{1+\text{Cos}[c+d x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$\left.\left(-10 a A b+8 a^2 B+9 b^2 B\right)\text{Cos}[c+d x]\,(b+a\,\text{Cos}[c+d x])\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left.\left.\left(-\text{Cos}\left[\frac{1}{2}(c+d x)\right]\text{Sec}[c+d x]\,\text{Sin}\left[\frac{1}{2}(c+d x)\right]+\text{Cos}\left[\frac{1}{2}(c+d x)\right]^2\text{Sec}[c+d x]\,\text{Tan}[c+d x]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^2(A+B\,\text{Sec}[c+d x])}{\sqrt{a+b\,\text{Sec}[c+d x]}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,(a+b)\,(3\,A\,b-2\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,A\,b-2\,a\,B+b\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,A\,b-2\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b^2\,d}+\frac{2\,B\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\left(\frac{2\,(3\,A\,b-2\,a\,B)\,\text{Sin}[c+d\,x]}{3\,b^2}+\frac{2\,B\,\text{Tan}[c+d\,x]}{3\,b}\right)}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\left(-\frac{A}{\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,a\,B}{3\,b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}-\frac{a\,A\,\sqrt{\text{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{B\,\sqrt{\text{Sec}[c+d\,x]}}{3\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2\,a^2\,B\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,A\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left.\frac{2\,a^2\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(2\,(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\right.$$

$$2\,b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-$$

$$\left.(3\,A\,b-2\,a\,B)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Bigg)\Bigg/\Bigg(3\,b^2\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(\frac{1}{3\,b^2\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]\right.$$

$$\left(2\,(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\right.$$

$$2\,b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\left.\frac{a-b}{a+b}\right]-(3\,A\,b-2\,a\,B)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)-$$

$$\frac{1}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(2\,(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\right.$$

$$2\,b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\left.\frac{a-b}{a+b}\right]-(3\,A\,b-2\,a\,B)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)+$$

$$\frac{1}{3\,b^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,2\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(-\frac{1}{2}\,(3\,A\,b-2\,a\,B)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+\right.$$

$$\frac{(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}+$$

$$\frac{b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}\,(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+\frac{1}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}$$

$$b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)+a\,(3\,A\,b-2\,a\,B)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+(3\,A\,b-2\,a\,B)\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sin}[c+d\,x]\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$(3\,A\,b-2\,a\,B)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+$$

$$\frac{b\,(3\,A\,b+(-2\,a+b)\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{1}{3\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}}$$

$$\left(2\,(a+b)\,(-3\,A\,b+2\,a\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\right.$$

$$2\,b\,(3\,A\,b+(-2\,a+b)\,B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-(3\,A\,b-2\,a\,B)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(a+b)\,B\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{b\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A+B)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,B\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b\,d}$$

$$\frac{2\,B\,(b+a\,\text{Cos}[c+d\,x])\,(A+B\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{b\,d\,(B+A\,\text{Cos}[c+d\,x])\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\left(-\frac{B}{\sqrt{b+a\,\text{Cos}[c+d\,x]}\sqrt{\text{Sec}[c+d\,x]}}+\frac{A\sqrt{\text{Sec}[c+d\,x]}}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,B\sqrt{\text{Sec}[c+d\,x]}}{b\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,B\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{b\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\right.$$

$$\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(2\,(a+b)\,B\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(A+B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$B\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(b\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\Bigg(-\Bigg(a\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\Bigg(2\,(a+b)\,B\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\Big[$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\Big]-2\,b\,(A+B)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\Big[$$

$$\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\Big]+B\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(b\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)+\Bigg(\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\Bigg(2\,(a+b)\,B\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-$$

$$2\,b\,(A+B)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$B\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(b\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)-\frac{1}{b\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$2\sqrt{\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\left(\frac{1}{2}B\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4+\right.$$

$$\frac{(a+b)\,B\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}-$$

$$\frac{b\,(A+B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}}+$$

$$\frac{(a+b)\,B\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}-$$

$$\frac{b\,(A+B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}-$$

$$a\,B\,\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$B\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+B\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])$$

$$\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-\frac{b\,(A+B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{(a+b)\,B\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)-$$

$$\frac{1}{b\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}}$$

$$\left(2(a+b)\,B\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(A+B)\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left.B\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left.\left(-\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\,x,\,8,\,0\right\}$$

$$\frac{A\,(a+b)\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,B\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A\,b-2\,a\,B)\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{A\,\mathrm{Cos}[c+d\,x]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{a\,d}$$

$$\left(\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(a\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.\right.$$

$$A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-2\,a\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+a\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+2\,i\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$4\,i\,a\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$4\,i\,a\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-i\,A\,(a-b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,(A\,b-a\,B)\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left.\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\right)\Big/$$

$$\left(a\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^2\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\,x,\,8,\,0\right\}$$

$$-\frac{(a+b)\,(3\,A\,b-4\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{A\,(2\,a-b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A+3\,A\,b^2-4\,a\,b\,B\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a\,d}-\frac{(3\,A\,b-4\,a\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a^2\,d}$$

$$\frac{A\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Sin}[2\,(c+d\,x)]}{4\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\Bigg(\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(-3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+6\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-8\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+8\,i\,a\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$8\,i\,a^2\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$8\,i\,a\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(-3\,A\,b+4\,a\,B)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$2\,i\,\left(2\,a^2\,A+3\,A\,b^2-a\,b\,(A+4\,B)\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4a^2\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{a+b\,\text{Sec}[c+d x]}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^3\,(A+B\,\text{Sec}[c+d x])}{\sqrt{a+b\,\text{Sec}[c+d x]}},\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\left(16a^2A+15Ab^2-18abB\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24a^3d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(2aAb+5Ab^2+12a^2B-6abB\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{12a^2d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(4a^2Ab+5Ab^3-8a^3B-6ab^2B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4a^3d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{(5Ab-6aB)\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{12a^2d}+\frac{A\,\text{Cos}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3ad}+$$

$$\frac{\left(16a^2A+15Ab^2-18abB\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24a^3d}$$

$$\frac{(b+a\,\text{Cos}[c+d x])\,\text{Sec}[c+d x]\left(\frac{A\,\text{Sin}[c+d x]}{12a}+\frac{(-5Ab+6aB)\,\text{Sin}[2(c+d x)]}{24a^2}+\frac{A\,\text{Sin}[3(c+d x)]}{12a}\right)}{d\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\left(\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}[c+d x]}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\Big(16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 15 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] +$$

$$15 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] - 18 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] - 18 a b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] -$$

$$32 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 - 30 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 + 36 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 +$$

$$16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 15 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 -$$

$$15 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 18 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 18 a b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 +$$

$$24 i a^2 A b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$30 i A b^3 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} - 48 i a^3 B \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} -$$

$$36 i a b^2 B \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$24 i a^2 A b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$48\,i\,a^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$36\,i\,a\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(16\,a^2\,A+15\,A\,b^2-18\,a\,b\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\left(-15\,A\,b^3+12\,a^3\,B-2\,a^2\,b\,(7\,A+3\,B)+a\,b^2\,(5\,A+18\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24\,a^3\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3\,(A+B\,\text{Sec}[c+d x])}{(a+b\,\text{Sec}[c+d x])^{3/2}},\,x,\,7,\,0\right\}$$

$$-\frac{2\left(6a^2Ab-3Ab^3-8a^3B+5ab^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(6aAb-3Ab^2-8a^2B+6abB-b^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(6a^2Ab-3Ab^3-8a^3B+5ab^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3b^3\left(a^2-b^2\right)d}+$$

$$\frac{2a(Ab-aB)\,\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}-\frac{2\left(3aAb-4a^2B+b^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3b^2\left(a^2-b^2\right)d}$$

$$\frac{(b+a\text{Cos}[c+dx])^2\,\text{Sec}[c+dx]^2\left(\frac{2\left(-6a^2Ab+3Ab^3+8a^3B-5ab^2B\right)\text{Sin}[c+dx]}{3b^3\left(-a^2+b^2\right)}+\frac{2\left(a^2Ab\,\text{Sin}[c+dx]-a^3B\,\text{Sin}[c+dx]\right)}{b^2\left(-a^2+b^2\right)(b+a\text{Cos}[c+dx])}+\frac{2B\,\text{Tan}[c+dx]}{3b^2}\right)}{d(a+b\,\text{Sec}[c+dx])^{3/2}}-$$

$$\left(2(b+a\text{Cos}[c+dx])\left(\frac{2a^2A}{b\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{Ab}{\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}+\right.\right.$$

$$\frac{5aB}{3\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-\frac{8a^3B}{3b^2\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}\sqrt{\text{Sec}[c+dx]}}-$$

$$\frac{2aA\sqrt{\text{Sec}[c+dx]}}{\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}+\frac{2a^3A\sqrt{\text{Sec}[c+dx]}}{b^2\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}-\frac{8a^4B\sqrt{\text{Sec}[c+dx]}}{3b^3\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}+$$

$$\frac{7a^2B\sqrt{\text{Sec}[c+dx]}}{3b\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}+\frac{bB\sqrt{\text{Sec}[c+dx]}}{3\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}-\frac{aA\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}+$$

$$\left.\frac{2a^3A\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{b^2\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}-\frac{8a^4B\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{3b^3\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}+\frac{5a^2B\text{Cos}[2(c+dx)]\sqrt{\text{Sec}[c+dx]}}{3b\left(-a^2+b^2\right)\sqrt{b+a\text{Cos}[c+dx]}}\right)$$

$$\text{Sec}[c+dx]^{3/2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\left(2(a+b)\left(-6a^2Ab+3Ab^3+8a^3B-5ab^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\right.$$

$$\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-2b\left(-2a^2-ab+b^2\right)$$

$$(3Ab+(-4a+b)B)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3 b^3\left(-a^2+b^2\right) d \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}\ (a+b \operatorname{Sec}[c+d x])^{3/2}$$

$$\Bigg(-\frac{1}{3 b^3\left(-a^2+b^2\right)(b+a \operatorname{Cos}[c+d x])^{3/2} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} a \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\ \operatorname{Sin}[c+d x]$$

$$\Bigg(2(a+b)\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]-2 b\left(-2 a^2-a b+b^2\right)(3 A b+(-4 a+b) B)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\ \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+$$

$$\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)+$$

$$\frac{1}{3 b^3\left(-a^2+b^2\right) \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\ \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\Bigg(2(a+b)\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]-2 b\left(-2 a^2-a b+b^2\right)(3 A b+(-4 a+b) B)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\ \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+$$

$$\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)-$$

$$\frac{1}{3 b^3 \left(-a^2+b^2\right) \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}} 2 \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}$$

$$\Bigg(\frac{1}{2}\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x]\,(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^4+$$

$$\frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}}(a+b)\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(\frac{\operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{(1+\operatorname{Cos}[c+d x])^2}-\frac{\operatorname{Sin}[c+d x]}{1+\operatorname{Cos}[c+d x]}\right)-\frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}}$$

$$b\left(-2 a^2-a b+b^2\right)(3 A b+(-4 a+b) B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}} \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]$$

$$\left(\frac{\operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{(1+\operatorname{Cos}[c+d x])^2}-\frac{\operatorname{Sin}[c+d x]}{1+\operatorname{Cos}[c+d x]}\right)+\frac{1}{\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}}(a+b)\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}} \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(-\frac{a \operatorname{Sin}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}+\right.$$

$$\left.\frac{(b+a \operatorname{Cos}[c+d x]) \operatorname{Sin}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])^2}\right)-\frac{1}{\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}} b\left(-2 a^2-a b+b^2\right)(3 A b+(-4 a+b) B) \sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}$$

$$\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\left(-\frac{a \operatorname{Sin}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}+\frac{(b+a \operatorname{Cos}[c+d x]) \operatorname{Sin}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])^2}\right)-$$

$$a\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sin}[c+d x] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right)(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sin}[c+d x] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$\left(-6 a^2 A b+3 A b^3+8 a^3 B-5 a b^2 B\right) \operatorname{Cos}[c+d x]\,(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$\frac{b\left(-2a^2-ab+b^2\right)\left(3Ab+(-4a+b)B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}+$$

$$\frac{(a+b)\left(-6a^2Ab+3Ab^3+8a^3B-5ab^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$-\Bigg(\Bigg(2(a+b)\left(-6a^2Ab+3Ab^3+8a^3B-5ab^2B\right)\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]-2b\left(-2a^2-ab+b^2\right)\left(3Ab+(-4a+b)B\right)$$

$$\sqrt{\frac{\text{Cos}[c+dx]}{1+\text{Cos}[c+dx]}}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(-6a^2Ab+3Ab^3+8a^3B-5ab^2B\right)\text{Cos}[c+dx]\,(b+a\,\text{Cos}[c+dx])\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}(c+dx)\right]\text{Sec}[c+dx]\,\text{Sin}\left[\frac{1}{2}(c+dx)\right]+\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]\,\text{Tan}[c+dx]\right)\Bigg)\Big/$$

$$\left(3b^3\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+dx]}\sqrt{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}(c+dx)\right]^2\text{Sec}[c+dx]}\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^2\,(A+B\,\text{Sec}[c+dx])}{(a+b\,\text{Sec}[c+dx])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\left(aAb-2a^2B+b^2B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2(Ab-2aB+bB)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(aAb-2a^2B+b^2B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{b^2\left(a^2-b^2\right)d}+\frac{2a(Ab-aB)\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^2\left(\frac{2\,(a\,A\,b-2\,a^2\,B+b^2\,B)\,\mathrm{Sin}[c+d\,x]}{b^2\,(-a^2+b^2)}-\frac{2\,(a\,A\,b\,\mathrm{Sin}[c+d\,x]-a^2\,B\,\mathrm{Sin}[c+d\,x])}{b\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])\left(-\frac{a\,A}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a^2\,B}{b\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{b\,B}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{a^2\,A\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{A\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{2\,a\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^3\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b^2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{a^2\,A\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{2\,a^3\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b^2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)$$

$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\left(2\,(a+b)\,(-a\,A\,b+2\,a^2\,B-b^2\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,(A\,b+(-2\,a+b)\,B)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.(-a\,A\,b+2\,a^2\,B-b^2\,B)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(b^2\,(-a^2+b^2)\,d\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{1}{b^2\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.\right.$$

$$a\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]\,\left(2\,(a+b)\,(-a\,A\,b+2\,a^2\,B-b^2\,B)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,(A\,b+(-2\,a+b)\,B)$$

$$\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(-a A b+2 a^2 B-b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg) -$$

$$\frac{1}{b^2\left(-a^2+b^2\right)\sqrt{b+a \operatorname{Cos}[c+d x]}\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\ \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\Bigg(2(a+b)\left(-a A b+2 a^2 B-b^2 B\right)\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+2 b(a+b)(A b+(-2 a+b) B)$$

$$\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\ \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]+$$

$$\left(-a A b+2 a^2 B-b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)+$$

$$\frac{1}{b^2\left(-a^2+b^2\right)\sqrt{b+a \operatorname{Cos}[c+d x]}\sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}}\ 2\sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}$$

$$\Bigg(\frac{1}{2}\left(-a A b+2 a^2 B-b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^4+$$

$$\frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}}(a+b)\left(-a A b+2 a^2 B-b^2 B\right)\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]\left(\frac{\operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{(1+\operatorname{Cos}[c+d x])^2}-\frac{\operatorname{Sin}[c+d x]}{1+\operatorname{Cos}[c+d x]}\right)+\frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}}$$

$$b(a+b)(A b+(-2 a+b) B)\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\ \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a-b}{a+b}\right]$$

$$\left(\frac{\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}-\frac{\text{Sin}[c+d\,x]}{1+\text{Cos}[c+d\,x]}\right)+\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}(a+b)\,\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)+$$

$$\frac{1}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}b\,(a+b)\,(A\,b+(-2\,a+b)\,B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]$$

$$\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)-a\,\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\text{Cos}[c+d\,x]$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+\frac{b\,(a+b)\,(A\,b+(-2\,a+b)\,B)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{(a+b)\,\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\left(\left(2\,(a+b)\,\left(-a\,A\,b+2\,a^2\,B-b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.\right.$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+2\,b\,(a+b)\,(A\,b+(-2\,a+b)\,B)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(-a A b+2 a^2 B-b^2 B\right) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x])\ \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)$$

$$\left(-\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right] \operatorname{Sec}[c+d x] \operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]\right)\Bigg)\Bigg/$$

$$\left(b^2\left(-a^2+b^2\right) \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]\ (A+B \operatorname{Sec}[c+d x])}{(a+b \operatorname{Sec}[c+d x])^{3/2}}, x, 5, 0\right\}$$

$$-\frac{2(A b-a B) \sqrt{1+\operatorname{Cos}[c+d x]} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}} \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{(a-b) b d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{2(A-B) \sqrt{1+\operatorname{Cos}[c+d x]} \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}} \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{(a-b) d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}+\frac{2(A b-a B) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{b(a+b) d \sqrt{a+b \operatorname{Sec}[c+d x]}}$$

$$\frac{(b+a \operatorname{Cos}[c+d x])^2 \operatorname{Sec}[c+d x]\ (A+B \operatorname{Sec}[c+d x])\left(-\frac{2(A b-a B) \operatorname{Sin}[c+d x]}{b\left(-a^2+b^2\right)}+\frac{2(A b \operatorname{Sin}[c+d x]-a B \operatorname{Sin}[c+d x])}{\left(-a^2+b^2\right)(b+a \operatorname{Cos}[c+d x])}\right)}{d(B+A \operatorname{Cos}[c+d x])(a+b \operatorname{Sec}[c+d x])^{3/2}}+$$

$$\Bigg(\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}\ (b+a \operatorname{Cos}[c+d x]) \sqrt{\operatorname{Sec}[c+d x]} \sqrt{\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Sec}[c+d x]}\ (A+B \operatorname{Sec}[c+d x])$$

$$\Bigg(-(a+b)\left((-A b+a B) \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]+b(A-B) \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a-b}{a+b}\right]\right)$$

$$\left(\operatorname{Cos}[c+d x] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2} \sqrt{\frac{(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \operatorname{Sec}[c+d x]+$$

$$(A b-a B) \operatorname{Cos}[c+d x]\ (b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^4 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\Bigg)\Bigg/$$

$$\left(\left(-a^2 b+b^3\right) d \sqrt{\frac{\operatorname{Cos}[c+d x]}{(1+\operatorname{Cos}[c+d x])^2}}\ (B+A \operatorname{Cos}[c+d x]) \sqrt{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{\operatorname{Sec}[c+d x]}{1+\operatorname{Sec}[c+d x]}}\ (a+b \operatorname{Sec}[c+d x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]}{(a+b \operatorname{Sec}[c+d x])^{3/2}}, x, 7, 0\right\}$$

$$\frac{2\,(A\,b-a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A-B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\,(A\,b-a\,B)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,(a+b)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{d\,(B+A\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+B\,\text{Sec}[c+d\,x])$$

$$\left(\frac{2\,(-A\,b+a\,B)\,\text{Sin}[c+d\,x]}{(a^2-b^2)\,(b+a\,\text{Cos}[c+d\,x])}+\frac{1}{a^3-a\,b^2}\,2\left(\frac{1}{\sqrt{\frac{-a+b}{a+b}}\,(b+a\,\text{Cos}[c+d\,x])}\,2\,i\,(a-b)\,\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\right.\right.$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\left((-A\,b+a\,B)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]+\right.$$

$$(2\,A\,b+a\,(A-B))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-2\,A\,(a+b)$$

$$\left.\left.\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}[c+d\,x]+(A\,b-a\,B)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$\frac{(a^2\,A-3\,A\,b^2+2\,a\,b\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a^2\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b-a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(3\,A\,b-2\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{a\,(a^2-b^2)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{(a^2\,A-3\,A\,b^2+2\,a\,b\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{a^2\,(a^2-b^2)\,d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^2\left(-\frac{2\,b\,(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{a^2\,(-a^2+b^2)}-\frac{2\,(-A\,b^3\,\mathrm{Sin}[c+d\,x]+a\,b^2\,B\,\mathrm{Sin}[c+d\,x])}{a^2\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}-$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+a^2\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$2\,a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+6\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-4\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$a^3\,A\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-a^2\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,a\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+2\,a^2\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-2\,a\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$6\,i\,a^2\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-6\,i\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$4\,i\,a^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+4\,i\,a\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$6\,i\,a^2\,A\,b\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$6\,i\,A\,b^3\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$4\,i\,a^3\,B\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$4\,i\,a\,b^2\,B\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$i\,(a-b)\,\left(a^2\,A-3\,A\,b^2+2\,a\,b\,B\right)\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$2\,i\,(a-b)\,\left(-3\,A\,b^2+a^2\,B+2\,a\,b\,(-A+B)\right)\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(a^2\sqrt{\frac{-a+b}{a+b}}\,\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\sqrt{1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(a\left(-1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)-b\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,9,\,0\right\}$$

$$-\frac{\left(7 a^2 A b-15 A b^3-4 a^3 B+12 a b^2 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4 a^3 (a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{\left(2 a^2 A-3 a A b+5 A b^2-4 a b B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^2 (a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(4 a^2 A+15 A b^2-12 a b B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^3 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b (A b-a B) \text{Cos}[c+d x] \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d \sqrt{a+b \text{Sec}[c+d x]}}+\frac{\left(a^2 A-5 A b^2+4 a b B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{2 a^2\left(a^2-b^2\right) d}-$$

$$\frac{\left(7 a^2 A b-15 A b^3-4 a^3 B+12 a b^2 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{4 a^3\left(a^2-b^2\right) d}$$

$$\frac{(b+a \text{Cos}[c+d x])^2 \text{Sec}[c+d x]^2\left(\frac{2 b^2 (A b-a B) \text{Sin}[c+d x]}{a^3\left(-a^2+b^2\right)}-\frac{2\left(A b^4 \text{Sin}[c+d x]-a b^3 B \text{Sin}[c+d x]\right)}{a^3\left(-a^2+b^2\right)(b+a \text{Cos}[c+d x])}+\frac{A \text{Sin}[2(c+d x)]}{4 a^2}\right)}{d(a+b \text{Sec}[c+d x])^{3/2}}+$$

$$\Bigg((b+a \text{Cos}[c+d x])^{3/2} \text{Sec}[c+d x]^{3/2} \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\Bigg(-7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+4 a^4 \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]+4 a^3 b \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]-12 a b^3 \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]+14 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$30 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-8 a^4 \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+24 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+12\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(-7\,a^2\,A\,b+15\,A\,b^3+4\,a^3\,B-12\,a\,b^2\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(2\,a^3\,A+15\,A\,b^3+a^2\,b\,(A-8\,B)+2\,a\,b^2\,(5\,A-6\,B)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(4\,a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^3\,(A+B\,\text{Sec}[c+d x])}{(a+b\,\text{Sec}[c+d x])^{3/2}},\,x,\,10,\,0\right\}$$

$$\left(\left(16 a^4 A+41 a^2 A b^2-105 A b^4-42 a^3 b B+90 a b^3 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(24 a^4 (a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\left(\left(10 a^2 A b-21 a A b^2+35 A b^3-12 a^3 B+18 a^2 b B-30 a b^2 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(12 a^3 (a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\frac{\left(12 a^2 A b+35 A b^3-8 a^3 B-30 a b^2 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4 a^4 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b (A b-a B) \text{Cos}[c+d x]^2 \text{Sin}[c+d x]}{a \left(a^2-b^2\right) d \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{\left(11 a^2 A b-35 A b^3-6 a^3 B+30 a b^2 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{12 a^3 \left(a^2-b^2\right) d}+$$

$$\frac{\left(a^2 A-7 A b^2+6 a b B\right) \text{Cos}[c+d x]^2 \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{3 a^2 \left(a^2-b^2\right) d}+$$

$$\frac{\left(16 a^4 A+41 a^2 A b^2-105 A b^4-42 a^3 b B+90 a b^3 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24 a^4 \left(a^2-b^2\right) d}$$

$$\frac{1}{d (a+b \text{Sec}[c+d x])^{3/2}} (b+a \text{Cos}[c+d x])^2 \text{Sec}[c+d x]^2 \left(-\frac{\left(a^4 A-a^2 A b^2+24 A b^4-24 a b^3 B\right) \text{Sin}[c+d x]}{12 a^4 \left(-a^2+b^2\right)}+\right.$$

$$\left.\frac{2 \left(A b^5 \text{Sin}[c+d x]-a b^4 B \text{Sin}[c+d x]\right)}{a^4 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])}+\frac{(-11 A b+6 a B) \text{Sin}[2 (c+d x)]}{24 a^3}+\frac{A \text{Sin}[3 (c+d x)]}{12 a^2}\right)-$$

$$\left(\left(b+a \text{Cos}[c+d x]\right)^{3/2} \left(\frac{5 A b}{12 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+\frac{7 A b^3}{12 a^2 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}-\right.\right.$$

$$\frac{a B}{2 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}-\frac{b^2 B}{2 a \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}-$$

$$\frac{a A \sqrt{\text{Sec}[c+d x]}}{3 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]}}-\frac{19 A b^2 \sqrt{\text{Sec}[c+d x]}}{48 a \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]}}+\frac{35 A b^4 \sqrt{\text{Sec}[c+d x]}}{48 a^3 \left(-a^2+b^2\right) \sqrt{b+a \text{Cos}[c+d x]}}+$$

$$\frac{5\,b\,B\,\sqrt{\text{Sec}[c+d\,x]}}{8\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{5\,b^3\,B\,\sqrt{\text{Sec}[c+d\,x]}}{8\,a^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,A\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\frac{41\,A\,b^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{48\,a\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{35\,A\,b^4\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{16\,a^3\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{7\,b\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{8\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{15\,b^3\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{8\,a^2\left(-a^2+b^2\right)\sqrt{b+a\,\text{Cos}[c+d\,x]}}\Bigg)$$

$$\text{Sec}[c+d\,x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Bigg(16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-105\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$42\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-42\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+90\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-32\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-82\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$210\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+84\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-180\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-105\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$42\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+42\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+90\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+72\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138\,i\,a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\,i\,A b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-48\,i\,a^5 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$132\,i\,a^3 b^2 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$180\,i\,a b^4 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$72\,i\,a^4 A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138\,i\,a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\,i\,A\,b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$48\,i\,a^5\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$132\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$180\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(16\,a^4\,A+41\,a^2\,A\,b^2-105\,A\,b^4-42\,a^3\,b\,B+90\,a\,b^3\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(-105\,A\,b^4-15\,a^2\,b^2\,(A-4\,B)+12\,a^4\,B+10\,a\,b^3\,(-7\,A+9\,B)+a^3\,(-26\,A\,b+6\,b\,B)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(24\,a^4\sqrt{\frac{-a+b}{a+b}}\,\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)$$

$$\Bigg(\Bigg(\left(a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\Bigg(16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$105\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-42\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$42\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+90\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$32\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-82\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+210\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$84\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-180\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$105\, a\, A\, b^4 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 105\, A\, b^5 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 42\, a^4\, b \sqrt{\frac{-a+b}{a+b}}\, B\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 +$$

$$42\, a^3\, b^2 \sqrt{\frac{-a+b}{a+b}}\, B\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 90\, a^2\, b^3 \sqrt{\frac{-a+b}{a+b}}\, B\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 90\, a\, b^4 \sqrt{\frac{-a+b}{a+b}}\, B\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 +$$

$$72\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} + 138\, i\, a^2\, A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} - 48\, i\, a^5\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$132\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} + 180\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$72\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$138\, i\, a^2 A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$210\, i\, A b^5 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$48\, i\, a^5 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$132\, i\, a^3 b^2 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 180\, i\, a b^4 B$$

$$\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - i\,(a-b)\left(16 a^4 A + 41 a^2 A b^2 - 105 A b^4 - 42 a^3 b B + 90 a b^3 B\right)$$

$$\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 2\, i\,(a-b)\left(-105 A b^4 - 15 a^2 b^2 (A-4 B) + 12 a^4 B +\right.$$

$$\left. 10 a b^3 (-7 A + 9 B) + a^3 (-26 A b + 6 b B)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(24\,a^4\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)^2\Bigg)+$$

$$\Bigg(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Bigg(16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-105\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$42\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-42\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+90\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-32\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-82\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+210$$

$$a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+84\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-180\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$16\,a^5\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-16\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+41\,a^3\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$41\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-105\,a\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$42\,a^4\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+42\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+90\,a^2\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+72\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138\,i\,a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\,i\,A b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-48\,i\,a^5 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$132\,i\,a^3 b^2 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+180\,i\,a b^4 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$72\,i\,a^4 A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138\,i\,a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$48\, i\, a^5\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$132\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$180\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - i\,(a-b)$$

$$\left(16\, a^4\, A+41\, a^2\, A\, b^2-105\, A\, b^4-42\, a^3\, b\, B+90\, a\, b^3\, B\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$2\, i\,(a-b)\left(-105\, A\, b^4-15\, a^2\, b^2\,(A-4\, B)+12\, a^4\, B+10\, a\, b^3\,(-7\, A+9\, B)+a^3\,(-26\, A\, b+6\, b\, B)\right)$$

$$\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg) \Big/$$

$$\left(48 a^4 \sqrt{\frac{-a+b}{a+b}} \left(a^2-b^2\right) \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2} \left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \left(\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)^{3/2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left(16 a^5 A \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+16 a^4 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+41 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.$$

$$41 a^2 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-105 a A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-105 A b^5 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$42 a^4 b \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-42 a^3 b^2 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+90 a^2 b^3 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$90 a b^4 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-32 a^5 A \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-82 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+210$$

$$a A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+84 a^4 b \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-180 a^2 b^3 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+$$

$$16 a^5 A \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-16 a^4 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+41 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$41 a^2 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-105 a A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+105 A b^5 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$42 a^4 b \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+42 a^3 b^2 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+90 a^2 b^3 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$90 a b^4 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+72 i a^4 A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138 i a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\,i\,A\,b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-48\,i\,a^5\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$132\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+180\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$72\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138\,i\,a^2\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\,i\,A\,b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$48\, i\, a^5\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$132\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$180\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - i\,(a-b)$$

$$\left(16 a^4 A+41 a^2 A b^2-105 A b^4-42 a^3 b B+90 a b^3 B\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$2\, i\,(a-b)\left(-105 A b^4-15 a^2 b^2 (A-4 B)+12 a^4 B+10 a b^3 (-7 A+9 B)+a^3 (-26 A b+6 b B)\right)$$

$$\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(48 a^4 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right) \sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right) -$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \left(\frac{-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} -\right.\right.$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\Bigg)$$

$$\Bigg(16 a^5 A \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+16 a^4 A b \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+41 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$41 a^2 A b^3 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-105 a A b^4 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-105 A b^5 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$42 a^4 b \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-42 a^3 b^2 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+90 a^2 b^3 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$90 a b^4 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-32 a^5 A \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-82 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+210$$

$$a A b^4 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+84 a^4 b \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-180 a^2 b^3 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+$$

$$16 a^5 A \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-16 a^4 A b \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+41 a^3 A b^2 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$41 a^2 A b^3 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-105 a A b^4 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+105 A b^5 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$42 a^4 b \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+42 a^3 b^2 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+90 a^2 b^3 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$90 a b^4 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+72 i a^4 A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$138 i a^2 A b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 48\, i\, a^5\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$132\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 180\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$72\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$138\, i\, a^2\, A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$48\, i\, a^5\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$132\,i\,a^3 b^2 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$180\,i\,a\,b^4 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)$$

$$\left(16 a^4 A+41 a^2 A b^2-105 A b^4-42 a^3 b B+90 a b^3 B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(-105 A b^4-15 a^2 b^2 (A-4 B)+12 a^4 B+10 a b^3 (-7 A+9 B)+a^3(-26 A b+6 b B)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left.\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right)\Bigg/$$

$$\left(48 a^4\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(8 a^5 A\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+\right.\right.$$

$$8 a^4 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+\frac{41}{2} a^3 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+\frac{41}{2} a^2 A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$\frac{105}{2} a A b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-\frac{105}{2} A b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-21 a^4 b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$21 a^3 b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+45 a^2 b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+45 a b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$48 a^5 A\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-123 a^3 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$315 a A b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+126 a^4 b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$270 a^2 b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+40 a^5 A\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$40 a^4 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+\frac{205}{2} a^3 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$\frac{205}{2} a^2 A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$\frac{525}{2} a A b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+\frac{525}{2} A b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$105 a^4 b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+105 a^3 b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+$$

$$225 a^2 b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-225 a b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+$$

$$\left(36\,i\,a^4 A b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+\Bigg(69\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i$$

$$\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\Bigg(105\,i\,A\,b^5\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-\Bigg(24\,i\,a^5\,B\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i$$

$$\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\Bigg(66\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+\left(90\,i\,a\,b^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\right.\right.$$

$$\left.\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Bigg/\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(36\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(69\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(105\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(24\,i\,a^5\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(66\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(90\,i\,a\,b^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(i\,(a-b)\left(16\,a^4\,A+41\,a^2\,A\,b^2-105\,A\,b^4-42\,a^3\,b\,B+90\,a\,b^3\,B\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.\right.$$

$$\frac{a+b}{a-b}\Big]\left(-a\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]+b\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\left(1+\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\Bigg)\Bigg/\left(2\,(a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}\right)+$$

$$\Bigg(i\,(a-b)\left(-105\,A\,b^4-15\,a^2\,b^2\,(A-4\,B)+12\,a^4\,B+10\,a\,b^3\,(-7\,A+9\,B)+a^3\,(-26\,A\,b+6\,b\,B)\right)$$

$$\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\frac{a+b}{a-b}\Big]\left(-a\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]+\right.$$

$$\left.b\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}\right)-\frac{1}{\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}}$$

$$36\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\frac{a+b}{a-b}\Big]\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-\frac{1}{\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}}$$

$$69\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\frac{a+b}{a-b}\Big]\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+\frac{1}{\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}}$$

$$105\,i\,A\,b^5\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\frac{a+b}{a-b}\Big]\,\mathrm{Sec}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$24\,i\,a^5\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$66\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$90\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$36\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$69\,i\,a^2\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$105\,i\,A\,b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$24\,i\,a^5\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$66\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$90\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)$$

$$\left(16\,a^4\,A+41\,a^2\,A\,b^2-105\,A\,b^4-42\,a^3\,b\,B+90\,a\,b^3\,B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\left(-105\,A\,b^4-15\,a^2\,b^2\,(A-4\,B)+12\,a^4\,B+10\,a\,b^3\,(-7\,A+9\,B)+a^3\,(-26\,A\,b+6\,b\,B)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$72\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$138\,i\,a^2\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$210\,i\,A\,b^5\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$48\,i\,a^5\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$132\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$180\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}i(a-b)$$

$$\left(16a^4A+41a^2Ab^2-105Ab^4-42a^3bB+90ab^3B\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}i(a-b)\left(-105Ab^4-15a^2b^2(A-4B)+12a^4B+10ab^3(-7A+9B)+a^3(-26Ab+6bB)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$\left((a-b)\sqrt{\frac{-a+b}{a+b}}\left(-105Ab^4-15a^2b^2(A-4B)+12a^4B+10ab^3(-7A+9B)+a^3(-26Ab+6bB)\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)-$$

$$\frac{36a^4Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}-$$

$$\frac{69\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{24\,a^5\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{66\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{36\,a^4\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{69\,a^2\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{105\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{24\,a^5\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{66\,a^3\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{90\,a\,b^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{1}{2\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}(a-b)\sqrt{\frac{-a+b}{a+b}}\left(16\,a^4\,A+41\,a^2\,A\,b^2-105\,A\,b^4-42\,a^3\,b\,B+90\,a\,b^3\,B\right)$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24 a^4\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4\,(A+B\,\text{Sec}[c+d x])}{(a+b\,\text{Sec}[c+d x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$-\left(2\left(8 a^4 A b-15 a^2 A b^3+3 A b^5-16 a^5 B+28 a^3 b^2 B-8 a b^4 B\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3(a-b)^2 b^4(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\left(2\left(8 a^3 A b-6 a^2 A b^2-9 a A b^3+3 A b^4-16 a^4 B+12 a^3 b B+16 a^2 b^2 B-9 a b^3 B+b^4 B\right)\sqrt{1+\text{Cos}[c+d x]}\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(3(a-b)^2 b^3(a+b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{2\left(8 a^4 A b-15 a^2 A b^3+3 A b^5-16 a^5 B+28 a^3 b^2 B-8 a b^4 B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 b^4\left(a^2-b^2\right)^2 d}+$$

$$\frac{2 a\,(A b-a B)\,\text{Sec}[c+d x]^2\,\text{Tan}[c+d x]}{3 b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}}+$$

$$\frac{2 a\left(3 a^2 A b-7 A b^3-6 a^3 B+10 a b^2 B\right)\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{3 b^2\left(a^2-b^2\right)^2 d\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\left(4 a^3 A b-8 a A b^3-8 a^4 B+13 a^2 b^2 B-b^4 B\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}[c+d x]}{3 b^3\left(a^2-b^2\right)^2 d}$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left((a+b)\,\left(-8\,a^4\,A\,b+15\,a^2\,A\,b^3-3\,A\,b^5+16\,a^5\,B-28\,a^3\,b^2\,B+8\,a\,b^4\,B\right)\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\right.$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$b\,(a+b)\,\left(-16\,a^4\,B-9\,a\,b^3\,(A+B)+b^4\,(3\,A+B)+4\,a^3\,b\,(2\,A+3\,B)+2\,a^2\,b^2\,(-3\,A+8\,B)\right)$$

$$\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+\left(-8\,a^4\,A\,b+15\,a^2\,A\,b^3-3\,A\,b^5+16\,a^5\,B-28\,a^3\,b^2\,B+8\,a\,b^4\,B\right)$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left(b-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^2\right)\right)\right)\Bigg/$$

$$\left(3\,b^4\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\frac{1}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\frac{2\,\left(8\,a^4\,A\,b-15\,a^2\,A\,b^3+3\,A\,b^5-16\,a^5\,B+28\,a^3\,b^2\,B-8\,a\,b^4\,B\right)\,\mathrm{Sin}[c+d\,x]}{3\,b^4\,\left(-a^2+b^2\right)^2}+\frac{2\,\left(a^2\,A\,b\,\mathrm{Sin}[c+d\,x]-a^3\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{2\,\left(-4\,a^4\,A\,b\,\mathrm{Sin}[c+d\,x]+8\,a^2\,A\,b^3\,\mathrm{Sin}[c+d\,x]+7\,a^5\,B\,\mathrm{Sin}[c+d\,x]-11\,a^3\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^3\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{2\,B\,\mathrm{Tan}[c+d\,x]}{3\,b^3}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{2\left(2a^3Ab-6aAb^3-8a^4B+15a^2b^2B-3b^4B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2b^3(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$-\left(2\left(2a^2Ab-3aAb^2-3Ab^3-8a^3B+6a^2bB+9ab^2B-3b^3B\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3(a-b)^2b^2(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-$$

$$\frac{2\left(2a^3Ab-6aAb^3-8a^4B+15a^2b^2B-3b^4B\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3b^3\left(a^2-b^2\right)^2d}+$$

$$\frac{2a(Ab-aB)\,\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{3b\left(a^2-b^2\right)d(a+b\,\text{Sec}[c+dx])^{3/2}}+\frac{2a\left(a^2Ab-5Ab^3-4a^3B+8ab^2B\right)\text{Tan}[c+dx]}{3b^2\left(a^2-b^2\right)^2d\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\frac{1}{d(a+b\,\text{Sec}[c+dx])^{5/2}}(b+a\text{Cos}[c+dx])^3\,\text{Sec}[c+dx]^3$$

$$\left(\frac{2\left(-2a^3Ab+6aAb^3+8a^4B-15a^2b^2B+3b^4B\right)\text{Sin}[c+dx]}{3b^3\left(-a^2+b^2\right)^2}-\frac{2\left(aAb\,\text{Sin}[c+dx]-a^2B\,\text{Sin}[c+dx]\right)}{3b\left(-a^2+b^2\right)(b+a\text{Cos}[c+dx])^2}-\right.$$

$$\left.\frac{2\left(-a^3Ab\,\text{Sin}[c+dx]+5aAb^3\,\text{Sin}[c+dx]+4a^4B\,\text{Sin}[c+dx]-8a^2b^2B\,\text{Sin}[c+dx]\right)}{3b^2\left(-a^2+b^2\right)^2(b+a\text{Cos}[c+dx])}\right)-$$

$$\left(2(b+a\text{Cos}[c+dx])^{5/2}\,\text{Sec}[c+dx]^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right.$$

$$\left(\left(a+b\right)\left(-2a^3Ab+6aAb^3+8a^4B-15a^2b^2B+3b^4B\right)\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]\right.$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}-$$

$$b(a+b)\left(3ab^2(A-3B)+8a^3B+3b^3(A+B)-2a^2b(A+3B)\right)\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a-b}{a+b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}+$$

$$\left.\left.\left(-2a^3Ab+6aAb^3+8a^4B-15a^2b^2B+3b^4B\right)\text{Tan}\left[\frac{1}{2}(c+dx)\right]\left(b-b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4+a\left(-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)^2\right)\right)\right)\Big/$$

$$\left(3b^3\left(a^2-b^2\right)^2d(a+b\,\text{Sec}[c+dx])^{5/2}\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$\frac{2\left(a^2 A b+3 A b^3+2 a^3 B-6 a b^2 B\right)\sqrt{1+\text{Cos}[c+d\,x]}\ \sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\ \sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(a A b+3 A b^2+2 a^2 B-3 a b B-3 b^2 B\right)\sqrt{1+\text{Cos}[c+d\,x]}\ \sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\ \sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(a^2 A b+3 A b^3+2 a^3 B-6 a b^2 B\right)\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,(a-b)\,b^2\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,(A b-a B)\,\text{Tan}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$(b+a\,\text{Cos}[c+d\,x])^3\,\text{Sec}[c+d\,x]^3\left(-\frac{2\left(a^2 A b+3 A b^3+2 a^3 B-6 a b^2 B\right)\text{Sin}[c+d\,x]}{3\,b^2\left(-a^2+b^2\right)^2}+\frac{2\,(A b\,\text{Sin}[c+d\,x]-a B\,\text{Sin}[c+d\,x])}{3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{2\left(2 a^2 A b\,\text{Sin}[c+d\,x]+2 A b^3\,\text{Sin}[c+d\,x]+a^3 B\,\text{Sin}[c+d\,x]-5 a b^2 B\,\text{Sin}[c+d\,x]\right)}{3\,b\left(-a^2+b^2\right)^2(b+a\,\text{Cos}[c+d\,x])}\right)+$$

$$\left(2\,(b+a\,\text{Cos}[c+d\,x])^2\left(\frac{a^2 A}{3\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \sqrt{\text{Sec}[c+d\,x]}}+\frac{A b^2}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \sqrt{\text{Sec}[c+d\,x]}}+\right.\right.$$

$$\frac{2 a^3 B}{3\,b\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \sqrt{\text{Sec}[c+d\,x]}}-\frac{2 a b B}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{a^3 A\sqrt{\text{Sec}[c+d\,x]}}{3\,b\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a A b\sqrt{\text{Sec}[c+d\,x]}}{3\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{5 a^2 B\sqrt{\text{Sec}[c+d\,x]}}{3\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{2 a^4 B\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{b^2 B\sqrt{\text{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{a^3 A\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{3\,b\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left.\frac{a A b\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{2 a^2 B\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{2 a^4 B\,\text{Cos}[2\,(c+d\,x)]\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\left(-a^2+b^2\right)^2\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)$$

$$\text{Sec}[c+d\,x]^{5/2}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\left(2\,(a+b)\left(a^2 A b+3 A b^3+2 a^3 B-6 a b^2 B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\right.$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a-b}{a+b}\right]-2\,b\,(a+b)\left(a\,b\,(A-3\,B)+3\,b^2\,(A-B)+2\,a^2 B\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\,\left(-a^2\,b+b^3\right)^2\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\Bigg(\frac{1}{3\,\left(-a^2\,b+b^3\right)^2\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,a\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\text{Sin}[c+d\,x]\,\Bigg(2\,(a+b)\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,(a+b)\,\left(a\,b\,(A-3\,B)+3\,b^2\,(A-B)+2\,a^2\,B\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)-$$

$$\frac{1}{3\,\left(-a^2\,b+b^3\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\Bigg(2\,(a+b)\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,(a+b)\,\left(a\,b\,(A-3\,B)+3\,b^2\,(A-B)+2\,a^2\,B\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \operatorname{Cos}[c + d x] \left(b + a \operatorname{Cos}[c + d x]\right) \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]\Bigg) +$$

$$\frac{1}{3 \left(-a^2 b + b^3\right)^2 \sqrt{b + a \operatorname{Cos}[c + d x]} \sqrt{\operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^2}} 2 \sqrt{\operatorname{Cos}\left[\frac{1}{2} (c + d x)\right]^2 \operatorname{Sec}[c + d x]}$$

$$\Bigg(\frac{1}{2} \left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \operatorname{Cos}[c + d x] \left(b + a \operatorname{Cos}[c + d x]\right) \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^4 + \frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}}$$

$$(a + b) \left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])}} \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]\right], \frac{a - b}{a + b}\right]$$

$$\left(\frac{\operatorname{Cos}[c + d x] \operatorname{Sin}[c + d x]}{(1 + \operatorname{Cos}[c + d x])^2} - \frac{\operatorname{Sin}[c + d x]}{1 + \operatorname{Cos}[c + d x]}\right) - \frac{1}{\sqrt{\frac{\operatorname{Cos}[c+d x]}{1+\operatorname{Cos}[c+d x]}}} b (a + b) \left(a b (A - 3 B) + 3 b^2 (A - B) + 2 a^2 B\right)$$

$$\sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])}} \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]\right], \frac{a - b}{a + b}\right] \left(\frac{\operatorname{Cos}[c + d x] \operatorname{Sin}[c + d x]}{(1 + \operatorname{Cos}[c + d x])^2} -\right.$$

$$\left.\frac{\operatorname{Sin}[c + d x]}{1 + \operatorname{Cos}[c + d x]}\right) + \frac{1}{\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b) (1+\operatorname{Cos}[c+d x])}}} (a + b) \left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}}$$

$$\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]\right], \frac{a - b}{a + b}\right] \left(-\frac{a \operatorname{Sin}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])} + \frac{(b + a \operatorname{Cos}[c + d x]) \operatorname{Sin}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])^2}\right) -$$

$$\frac{1}{\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b) (1+\operatorname{Cos}[c+d x])}}} b (a + b) \left(a b (A - 3 B) + 3 b^2 (A - B) + 2 a^2 B\right) \sqrt{\frac{\operatorname{Cos}[c + d x]}{1 + \operatorname{Cos}[c + d x]}}$$

$$\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]\right], \frac{a - b}{a + b}\right] \left(-\frac{a \operatorname{Sin}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])} + \frac{(b + a \operatorname{Cos}[c + d x]) \operatorname{Sin}[c + d x]}{(a + b) (1 + \operatorname{Cos}[c + d x])^2}\right) -$$

$$a \left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \operatorname{Cos}[c + d x] \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^2 \operatorname{Sin}[c + d x] \operatorname{Tan}\left[\frac{1}{2} (c + d x)\right] -$$

$$\left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \left(b + a \operatorname{Cos}[c + d x]\right) \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^2 \operatorname{Sin}[c + d x] \operatorname{Tan}\left[\frac{1}{2} (c + d x)\right] +$$

$$\left(a^2 A b + 3 A b^3 + 2 a^3 B - 6 a b^2 B\right) \operatorname{Cos}[c + d x] \left(b + a \operatorname{Cos}[c + d x]\right) \operatorname{Sec}\left[\frac{1}{2} (c + d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c + d x)\right]^2 -$$

$$\frac{b\,(a+b)\,\left(a\,b\,(A-3\,B)+3\,b^2\,(A-B)+2\,a^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{(a+b)\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)+$$

$$\Bigg(\Bigg(2\,(a+b)\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-2\,b\,(a+b)\,\left(a\,b\,(A-3\,B)+3\,b^2\,(A-B)+2\,a^2\,B\right)$$

$$\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)$$

$$\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\,\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\Bigg)\Big/$$

$$\left(3\,\left(-a^2\,b+b^3\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,\left(4\,a\,A\,b-a^2\,B-3\,b^2\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,a\,A+A\,b-a\,B-3\,b\,B)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(4\,a\,A\,b-a^2\,B-3\,b^2\,B\right)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,(a-b)\,b\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\,(A\,b-a\,B)\,\text{Tan}[c+d\,x]}{3\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^2$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(-\frac{2\left(-4\,a\,A\,b+a^2\,B+3\,b^2\,B\right)\mathrm{Sin}[c+d\,x]}{3\,b\left(-a^2+b^2\right)^2}-\frac{2\left(A\,b^2\,\mathrm{Sin}[c+d\,x]-a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,a\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{2\left(-5\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+A\,b^3\,\mathrm{Sin}[c+d\,x]+2\,a^3\,B\,\mathrm{Sin}[c+d\,x]+2\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,a\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)+$$

$$\left(\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left((a+b)\left(\left(-4\,a\,A\,b+a^2\,B+3\,b^2\,B\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+\right.\right.$$

$$\left.b\,(3\,a\,A+A\,b-a\,B-3\,b\,B)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)$$

$$\left(\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\mathrm{Sec}[c+d\,x]+$$

$$\left.\left.\left(-4\,a\,A\,b+a^2\,B+3\,b^2\,B\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(3\,b\left(a^2-b^2\right)^2 d\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}}\,(B+A\,\mathrm{Cos}[c+d\,x])\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{\mathrm{Sec}[c+d\,x]}{1+\mathrm{Sec}[c+d\,x]}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(7\,a^2\,A\,b-3\,A\,b^3-4\,a^3\,B\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,a^2\,(a-b)^2\,(a+b)\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\left(3\,a^2\,A+3\,a\,A\,b-2\,A\,b^2-3\,a^2\,B-a\,b\,B\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,a\,(a-b)^2\,(a+b)\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\left(7\,a^2\,A\,b-3\,A\,b^3-4\,a^3\,B\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{3\,a^2\,(a-b)\,(a+b)^2\,d\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,b\,(A\,b-a\,B)\,\mathrm{Tan}[c+d\,x]}{3\,a\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^2$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{2\left(-7\,a^2\,A\,b+3\,A\,b^3+4\,a^3\,B\right)\mathrm{Sin}[c+d\,x]}{3\,a^2\left(a^2-b^2\right)^2}+\frac{2\left(A\,b^3\,\mathrm{Sin}[c+d\,x]-a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^2\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}-\right.$$

$$\left.\frac{2\left(-8\,a^2\,A\,b^2\,\mathrm{Sin}[c+d\,x]+4\,A\,b^4\,\mathrm{Sin}[c+d\,x]+5\,a^3\,b\,B\,\mathrm{Sin}[c+d\,x]-a\,b^3\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^2\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)+$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\left(7\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+7\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-3\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-\right.$$

$$3\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$14\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+6\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+8\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$7\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-7\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-3\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+$$

$$3\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$6\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$12\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-6\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$6\,i\,a^4\,A\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$12\,i\,a^2\,A\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$6\,i\,A\,b^4\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$i\,(a-b)\,\big(-7\,a^2\,A\,b+3\,A\,b^3+4\,a^3\,B\big)\,\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$i\,(a-b)\,\big(-4\,a\,A\,b^2-6\,A\,b^3+3\,a^3\,(A-B)+a^2\,b\,(9\,A+B)\big)\,\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(3\,a^2\sqrt{\frac{-a+b}{a+b}}\,\big(a^2-b^2\big)^2\,d\,(B+A\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(-1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\right)$$

$$\sqrt{\frac{1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}}\left(a\left(-1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)-b\left(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\right)\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,9,\,0\right\}$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(3 a^3 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\left(2\left(6 a^2 A b+3 a A b^2-5 A b^3-3 a^3 B-3 a^2 b B+2 a b^2 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(3 a^2 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\frac{2(5 A b-2 a B) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b (A b-a B) \text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+\frac{2 b\left(9 a^2 A b-5 A b^3-6 a^3 B+2 a b^2 B\right) \text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 a^3\left(a^2-b^2\right)^2 d}$$

$$\frac{1}{d (a+b \text{Sec}[c+d x])^{5/2}} (b+a \text{Cos}[c+d x])^3 \text{Sec}[c+d x]^3$$

$$\left(-\frac{2 b\left(-10 a^2 A b+6 A b^3+7 a^3 B-3 a b^2 B\right) \text{Sin}[c+d x]}{3 a^3\left(-a^2+b^2\right)^2}-\frac{2\left(A b^4 \text{Sin}[c+d x]-a b^3 B \text{Sin}[c+d x]\right)}{3 a^3\left(-a^2+b^2\right)(b+a \text{Cos}[c+d x])^2}+\right.$$

$$\left.\frac{2\left(-11 a^2 A b^3 \text{Sin}[c+d x]+7 A b^5 \text{Sin}[c+d x]+8 a^3 b^2 B \text{Sin}[c+d x]-4 a b^4 B \text{Sin}[c+d x]\right)}{3 a^3\left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}\right)+$$

$$\left(\left(b+a \text{Cos}[c+d x]\right)^{5/2}\left(-\frac{2 a A b}{\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+\frac{2 A b^3}{3 a\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+\right.\right.$$

$$\frac{a^2 B}{\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+\frac{b^2 B}{3\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+$$

$$\frac{a^2 A \sqrt{\text{Sec}[c+d x]}}{2\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]}}-\frac{4 A b^2 \sqrt{\text{Sec}[c+d x]}}{3\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]}}+\frac{5 A b^4 \sqrt{\text{Sec}[c+d x]}}{6 a^2\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]}}+$$

$$\frac{a\,b\,B\,\sqrt{\text{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{b^3\,B\,\sqrt{\text{Sec}[c+d\,x]}}{3\,a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{a^2\,A\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\frac{13\,A\,b^2\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\frac{5\,A\,b^4\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{2\,a^2\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left.\frac{7\,a\,b\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{b^3\,B\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\text{Sec}[c+d\,x]^{5/2}$$

$$\left(-\left(\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\,\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right.\right.$$

$$\left.\left(a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)\Big/$$

$$\left(2\,a\,\sqrt{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\,\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\,\sqrt{-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\,\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}-$$

$$\frac{(a-b)\,b\,\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}-$$

$$\frac{3(a-b)^2(a+b)^2(-5Ab+2aB)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{2a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(\Bigg(3\,i\,a^4A\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\Bigg(26\,i\,a^2Ab^2\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\left(15\, i\, A\, b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(14\, i\, a^3\, b\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(6\, i\, a\, b^3\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\frac{3\, i\, a^4\, A\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{18\, i\, a^3\, A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{10\, i\, a^2\, A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{20\, i\, a\, A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{15\, i\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{6\, i\, a^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{4\, i\, a^3\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{8\, i\, a^2\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(12\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(12\, i\, a^2\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(12\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(\Bigg(-3 a^4 A+12 a^3 A b+20 a^2 A b^2-10 a A b^3-15 A b^4-6 a^4 B-8 a^3 b B+4 a^2 b^2 B+6 a b^3 B-18 a^3 A b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$36 a^2 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+20 a A b^3\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+30 A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+6 a^4 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$18 a^3 b B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 8 a^2 b^2 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 12 a b^3 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 3 a^4 A \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$26 a^2 A b^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 15 A b^4 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 14 a^3 b B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 6 a b^3 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)$$

$$\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(d\,(a+b\operatorname{Sec}[c+d x])^{5/2}\Bigg(\Bigg(\left(3 a^4 A - 26 a^2 A b^2 + 15 A b^4 + 14 a^3 b B - 6 a b^3 B\right)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] - b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(2 a\sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)^2\right) -$$

$$\Bigg(\left(3 a^4 A - 26 a^2 A b^2 + 15 A b^4 + 14 a^3 b B - 6 a b^3 B\right)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(2 a \sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)\Big/$$

$$\left(4 a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)\Big/$$

$$\left(2 a \sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right.$$

$$\left.\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)\Big/$$

$$\left(4 a \sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left(\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)^{3/2}\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\left.\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right) \Big/$$

$$\left(4 a \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\left(\frac{-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}-\right.$$

$$\left.\left.\frac{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)\right) \Big/$$

$$\left(4 a \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(\left((a-b)\left(3a^4A-26a^2Ab^2+15Ab^4+14a^3bB-6ab^3B\right)\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(4a\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)-$$

$$\left((a-b)\,b\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(8a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left((a-b)\,b\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\right.$$

$$\left.\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left(3 (a-b)^2 (a+b)^2 (-5 A b+2 a B) \left(-a \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}\right) \Big/ \left(4 a \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \left(a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)^{3/2}\right)-$$

$$\frac{(a-b) \left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{4 a \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{(a-b) b \left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{8 a \left(-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{(a-b) b \left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{8 a \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{(a-b) b \left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}{8 a \left(-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right)^2 \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{(a-b) b \left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}{8 a \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right)^2 \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{3 (a-b)^2 (a+b)^2 (-5 A b+2 a B) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right] \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}{2 a \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)^2 \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\left.\frac{3 (a-b)^2 (a+b)^2 (-5 A b+2 a B) \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{4 a \sqrt{-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}\right)$$

$$\left(\left(3\, i\, a^4 A \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.\left. i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(26\, i\, a^2 A b^2 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left. i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(15\, i\, A b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left. i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(14\, i\, a^3\, b\, B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(6\, i\, a\, b^3\, B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\, i\, a^4\, A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\, i\, a^3\, A\, b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\, i\, a^2\, A\, b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\, i\, a\, A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{15\, i\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{6\, i\, a^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{4\, i\, a^3\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{8\, i\, a^2\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{6\, i\, a\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\Bigg(30\, i\, a^3\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Big/$$

$$\Bigg(\Bigg(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$36\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+20\,a\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$18\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-8\,a^2\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-12\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$26\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+15\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)-$$

$$\left(\left(a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(26\,i\,a^2\,A\,b^2\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(15\,i\,A\,b^4\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(6\,i\,a\,b^3\,B\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}-$$

$$\frac{15\, i\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{6\, i\, a^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{4\, i\, a^3\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{8\, i\, a^2\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{6\, i\, a\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\left(30\, i\, a^3\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(30\, i\, a^2\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(12\, i\, a\, b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(\Bigg(-3 a^4 A+12 a^3 A b+20 a^2 A b^2-10 a A b^3-15 A b^4-6 a^4 B-8 a^3 b B+4 a^2 b^2 B+6 a b^3 B-18 a^3 A b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$36 a^2 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+20 a A b^3\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+30 A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+6 a^4 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$18 a^3 b B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-8 a^2 b^2 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-12 a b^3 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+3 a^4 A\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$26 a^2 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+15 A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+14 a^3 b B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-6 a b^3 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)^2\Bigg) -$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\left(-18 a^3 A b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]-36 a^2 A b^2 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.$$

$$20 a A b^3 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+30 A b^4 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$6 a^4 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+18 a^3 b B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]-8 a^2 b^2 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]-12 a b^3 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+6 a^4 A \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$52 a^2 A b^2 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3+30 A b^4 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3+$$

$$\left.28 a^3 b B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3-12 a b^3 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)$$

$$\sqrt{-a-b+2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(-\frac{(a-b)\left(3 a^4 A-26 a^2 A b^2+15 A b^4+14 a^3 b B-6 a b^3 B\right)\sqrt{-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2 a\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\right.$$

$$\frac{(a-b) b\left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right)\sqrt{-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{(a-b) b\left(3 a^3 A+21 a^2 A b-5 a A b^2-15 A b^3-12 a^3 B+2 a^2 b B+6 a b^2 B\right)\sqrt{-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\left.\frac{3(a-b)^2(a+b)^2(-5 A b+2 a B)\sqrt{-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2 a\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

$$\left(\left(3 i a^4 A\left(\operatorname{EllipticE}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]-\operatorname{EllipticF}\left[\right.\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(26\,i\,a^2\,A\,b^2\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(15\,i\,A\,b^4\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(6\,i\,a\,b^3\,B\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4}}-$$

$$\frac{15\, i\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{6\, i\, a^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{4\, i\, a^3\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{8\, i\, a^2\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{6\, i\, a\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\left(30\, i\, a^3\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(30\, i\, a^2\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(12\, i\, a\, b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(\Bigg(-3 a^4 A+12 a^3 A b+20 a^2 A b^2-10 a A b^3-15 A b^4-6 a^4 B-8 a^3 b B+4 a^2 b^2 B+6 a b^3 B-18 a^3 A b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$36 a^2 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+20 a A b^3\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+30 A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+6 a^4 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$18 a^3 b B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-8 a^2 b^2 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-12 a b^3 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+3 a^4 A\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-$$

$$26 a^2 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+15 A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+14 a^3 b B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-6 a b^3 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)^2$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)\Bigg)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-\right.$$

$$\left.2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+2\,b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)$$

$$\left(-\frac{(a-b)\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(26\, i\, a^2 A b^2 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(15\, i\, A b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(14\, i\, a^3 b B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6\, i\, a b^3 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, a\, A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(12\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Bigg(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$36\,a^2\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+20\,a\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$18\,a^3\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-8\,a^2\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-12\,a\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$26\,a^2\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+15\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(26\, i\, a^2 A b^2 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(15\, i\, A b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(14\, i\, a^3 b B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6\, i\, a b^3 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, a\, A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(12\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\Bigg(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-$$

$$6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-36\,a^2\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$20\,a\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+18\,a^3\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$8\,a^2\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-12\,a\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-26\,a^2\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$15\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(26\, i\, a^2 A b^2 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(15\, i\, A b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(14\, i\, a^3 b B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6\, i\, a b^3 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, a\, A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\, i\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a^2\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(12\,i\,a\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\,\Bigg(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$36\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+20\,a\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$18\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-8\,a^2\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-12\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$26\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+15\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\,\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\,\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(26\,i\,a^2\,A\,b^2\,\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(15\,i\,A\,b^4\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a\,b^3\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\,i\,a^2\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\left(2\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+\right.\right.$$

$$6\,a\,b^3\,B-18\,a^3\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-36\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+20\,a\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$30\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+18\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-8\,a^2\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$12\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-26\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\left.15\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)+$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)^{3/2}\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\,\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(\left(3\,i\,a^4\,A\,\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(26\,i\,a^2\,A\,b^2\,\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(15\,i\,A\,b^4\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a\,b^3\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\,i\,a^2\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{-a-b+2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(2\, \Big(-3\, a^4\, A+12\, a^3\, A\, b+20\, a^2\, A\, b^2-10\, a\, A\, b^3-15\, A\, b^4-6\, a^4\, B-8\, a^3\, b\, B+4\, a^2\, b^2\, B+6\, a\, b^3\, B-$$

$$18\, a^3\, A\, b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-36\, a^2\, A\, b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+20\, a\, A\, b^3\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$30\, A\, b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+6\, a^4\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+18\, a^3\, b\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-8\, a^2\, b^2\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$12\, a\, b^3\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+3\, a^4\, A\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-26\, a^2\, A\, b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+$$

$$15\, A\, b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+14\, a^3\, b\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-6\, a\, b^3\, B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Big)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)\Bigg)+$$

$$\Bigg(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{-a-b+2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\Bigg(-\frac{(a-b)\left(3\, a^4\, A-26\, a^2\, A\, b^2+15\, A\, b^4+14\, a^3\, b\, B-6\, a\, b^3\, B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\, a\, \sqrt{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{(a-b)\,b\,\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}-$$

$$\frac{(a-b)\,b\,\left(3a^3A+21a^2Ab-5aAb^2-15Ab^3-12a^3B+2a^2bB+6ab^2B\right)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}-$$

$$\left.\frac{3(a-b)^2(a+b)^2(-5Ab+2aB)\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{2a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\right)$$

$$\left(\frac{-a\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}-\right.$$

$$\left.\frac{\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)}{\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)^2}\right)$$

$$\left(\left(3\,i\,a^4A\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(26\,i\,a^2Ab^2\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(15\,i\,A\,b^4\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a\,b^3\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\frac{3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{18\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{10\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{20\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{15\,i\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{6\,i\,a^4\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{4\,i\,a^3\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{8\,i\,a^2\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{6\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\left(30\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\,i\,a^2\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg/$$

$$\left(2\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\left(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-\right.\right.$$

$$6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-36\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$20\,a\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+18\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$8\,a^2\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-12\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-26\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\left.15\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(-\frac{(a-b)\,\left(3\,a^4\,A-26\,a^2\,A\,b^2+15\,A\,b^4+14\,a^3\,b\,B-6\,a\,b^3\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\right.$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{(a-b)\,b\,\left(3\,a^3\,A+21\,a^2\,A\,b-5\,a\,A\,b^2-15\,A\,b^3-12\,a^3\,B+2\,a^2\,b\,B+6\,a\,b^2\,B\right)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,(-5\,A\,b+2\,a\,B)\,\sqrt{-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,a\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(3\,i\,a^4\,A\,\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}$$

$$\left.\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/$$

$$\left(2\,\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(13\, i\, a^2 A b^2 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2(-a+b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) -$$

$$\left(15\, i\, A b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2(-a+b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(2\sqrt{-\frac{a-b}{a+b}} \left(-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (-a+b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) -$$

$$\left(7\, i\, a^3 b B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(3\,i\,a\,b^3\,B\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}$$

$$\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(2\,\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(9\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(5\,i\,a^2\,A\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(10\,i\,a\,A\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(15\,i\,A\,b^4\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(2\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(3 i a^4 B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(2 a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(-a+b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(2 i a^3 b B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(2 a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(-a+b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(4 i a^2 b^2 B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(2 a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(-a+b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(3\,i\,a\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(15\,i\,a^3\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(15\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(-a+b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\left(-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(15\,i\,a\,A\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(15\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(6\,i\,a^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(6\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(-a+b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(6 i a^2 b^2 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(-a+b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(6 i a b^3 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(-a+b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\frac{3 a^4 A \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}}-$$

$$\frac{9 a^3 A b \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}}-$$

$$\frac{5 a^2 A b^2 \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}}+$$

$$\frac{10\,a\,A\,b^3\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{15\,A\,b^4\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{2\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{3\,a^4\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{2\,a^3\,b\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{4\,a^2\,b^2\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{3\,a\,b^3\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{15\,a^3\,A\,b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{15\,a^2\,A\,b^2\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{15\,a\,A\,b^3\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{15\,A\,b^4\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{6\,a^4\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{6\,a^3\,b\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{6\,a^2\,b^2\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{6\,a\,b^3\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\left(3\,i\,a^4\,A\,(a-b)\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(13\,i\,a^2\,A\,(a-b)\,b^2\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(15\, i\, A\, (a-b)\, b^4 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(7\, i\, a^3\, (a-b)\, b\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(3\, i\, a\, (a-b)\, b^3\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(3\, i\, a^4\, A\, (a-b)\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(9\,i\,a^3\,A\,(a-b)\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(5\,i\,a^2\,A\,(a-b)\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(10\,i\,a\,A\,(a-b)\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(15\,i\,A\,(a-b)\,b^4\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(3 i a^4 (a-b) B \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(2 i a^3 (a-b) b B \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(4 i a^2 (a-b) b^2 B \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(3\,i\,a\,(a-b)\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(15\,i\,a^3\,A\,(a-b)\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(15\,i\,a^2\,A\,(a-b)\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(15\,i\,a\,A\,(a-b)\,b^3\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(15\,i\,A\,(a-b)\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(6\,i\,a^4\,(a-b)\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(6\,i\,a^3\,(a-b)\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{-a-b+2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(6\,i\,a^2\,(a-b)\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(6\,i\,a\,(a-b)\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(3\,i\,a^4\,A\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Big) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(13\,i\,a^2\,A\,b^2\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Big) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(15 i A b^4\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(7 i a^3 b B\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(3 i a b^3 B\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(3\,i\,a^4\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(9\,i\,a^3\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(5\,i\,a^2\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(10\,i\,a\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(15\, i\, A\, b^4\, \text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(3\, i\, a^4\, B\, \text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(2\, i\, a^3\, b\, B\, \text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(4 i a^2 b^2 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(3 i a b^3 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(15 i a^3 A b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(15\, i\, a^2 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(15\, i\, a A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(15\, i\, A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{-a-b+2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6\, i\, a^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(6 i a^3 b B\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(6 i a^2 b^2 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(6 i a b^3 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(3 i a^4 A\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(26 i a^2 A b^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(-a+b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(15 i A b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(14\,i\,a^3\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a\,b^3\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{-a-b+2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg)\Big/$$

$$\Bigg(\Bigg(-3\,a^4\,A+12\,a^3\,A\,b+20\,a^2\,A\,b^2-10\,a\,A\,b^3-15\,A\,b^4-6\,a^4\,B-8\,a^3\,b\,B+4\,a^2\,b^2\,B+6\,a\,b^3\,B-18\,a^3\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$36\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+20\,a\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+30\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+18\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-8\,a^2\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$12\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+3\,a^4\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-26\,a^2\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$15\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+14\,a^3\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-6\,a\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 10,\ 0\right\}$$

$$-\left(\left(33 a^4 A b-170 a^2 A b^3+105 A b^5-12 a^5 B+104 a^3 b^2 B-60 a b^4 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(12 a^4 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\left(\left(6 a^4 A-9 a^3 A b+33 a^2 A b^2+21 a A b^3-35 A b^4-24 a^3 b B-12 a^2 b^2 B+20 a b^3 B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(6 a^3 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\frac{\left(4 a^2 A+35 A b^2-20 a b B\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^4 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2 b (A b-a B) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+$$

$$\frac{2 b \left(11 a^2 A b-7 A b^3-8 a^3 B+4 a b^2 B\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a^2 \left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(3 a^4 A-54 a^2 A b^2+35 A b^4+36 a^3 b B-20 a b^3 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{6 a^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(33 a^4 A b-170 a^2 A b^3+105 A b^5-12 a^5 B+104 a^3 b^2 B-60 a b^4 B\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{12 a^4 \left(a^2-b^2\right)^2 d}$$

$$\frac{1}{d (a+b \text{Sec}[c+d x])^{5/2}} (b+a \text{Cos}[c+d x])^3 \text{Sec}[c+d x]^3$$

$$\left(\frac{2 b^2 \left(-13 a^2 A b+9 A b^3+10 a^3 B-6 a b^2 B\right) \text{Sin}[c+d x]}{3 a^4 \left(-a^2+b^2\right)^2}+\frac{2 \left(A b^5 \text{Sin}[c+d x]-a b^4 B \text{Sin}[c+d x]\right)}{3 a^4 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^2}-\right.$$

$$\left.\frac{2 \left(-14 a^2 A b^4 \text{Sin}[c+d x]+10 A b^6 \text{Sin}[c+d x]+11 a^3 b^3 B \text{Sin}[c+d x]-7 a b^5 B \text{Sin}[c+d x]\right)}{3 a^4 \left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}+\frac{A \text{Sin}[2(c+d x)]}{4 a^3}\right)+$$

$$\left(\left(b+a \text{Cos}[c+d x]\right)^{5/2}\left(\frac{a^2 A}{2\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}+\frac{2 A b^2}{\left(-a^2+b^2\right)^2 \sqrt{b+a \text{Cos}[c+d x]} \sqrt{\text{Sec}[c+d x]}}-\right.\right.$$

$$\frac{7 A b^4}{6 a^2 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}[c+d x]}}-\frac{2 a b B}{\left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}[c+d x]}}+$$

$$\frac{2 b^3 B}{3 a \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]} \sqrt{\operatorname{Sec}[c+d x]}}-\frac{9 a A b \sqrt{\operatorname{Sec}[c+d x]}}{8 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+$$

$$\frac{31 A b^3 \sqrt{\operatorname{Sec}[c+d x]}}{12 a \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}-\frac{35 A b^5 \sqrt{\operatorname{Sec}[c+d x]}}{24 a^3 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+\frac{a^2 B \sqrt{\operatorname{Sec}[c+d x]}}{2 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}-$$

$$\frac{4 b^2 B \sqrt{\operatorname{Sec}[c+d x]}}{3 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+\frac{5 b^4 B \sqrt{\operatorname{Sec}[c+d x]}}{6 a^2 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}-\frac{11 a A b \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{8 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+$$

$$\frac{85 A b^3 \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{12 a \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}-\frac{35 A b^5 \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{8 a^3 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+$$

$$\frac{a^2 B \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{2 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}-\frac{13 b^2 B \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{3 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}+\frac{5 b^4 B \operatorname{Cos}[2 (c+d x)] \sqrt{\operatorname{Sec}[c+d x]}}{2 a^2 \left(-a^2+b^2\right)^2 \sqrt{b+a \operatorname{Cos}[c+d x]}}\Bigg)$$

$$\operatorname{Sec}[c+d x]^{5/2} \Bigg(-\Bigg(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]$$

$$\left(a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(4 a \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}} \sqrt{1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \left(a \left(-1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)-b \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)\right)\right)+$$

$$\Bigg(\sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}} \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{3\,a^4\,b\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{26\,a^3\,b^2\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{26\,a^2\,b^3\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,a\,b^4\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{15\,b^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/\left(8\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(12\, i\, a^5\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(104\, i\, a^3\, b^2\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\Bigg(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(24\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-$$

$$60\,a\,b^4\,B+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\Bigg(\Bigg(\left(-33\,a^4\,A\,b+170\,a^2\,A\,b^3-105\,A\,b^5+12\,a^5\,B-104\,a^3\,b^2\,B+60\,a\,b^4\,B\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]$$

$$\left(a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)$$

$$\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\Bigg)\Bigg/$$

$$\left(4\,a\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)^2\right)-$$

$$\left(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right.$$

$$\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\left.\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right) \Big/$$

$$\left(4 a \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Big) \Big/$$

$$\left(8 a \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Big) \Big/$$

$$\left(8 a \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right) \Big/ \left(8 a \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B\right) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \left(\frac{-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}-\frac{\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)\right) \Big/ \left(8 a \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \sqrt{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(-\frac{33\,a^4\,A\,b\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{8\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+\right.$$

$$\frac{33\,a^3\,A\,b^2\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{8\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+$$

$$\frac{85\,a^2\,A\,b^3\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{85\,a\,A\,b^4\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{105\,A\,(a-b)\,b^5\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{8\,a\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}$$

$$+$$

$$\frac{3\,a^5\,B\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{3 a^4 b B \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{13 a^3 b^2 B \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+$$

$$\frac{13 a^2 b^3 B \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+$$

$$\frac{15 a b^4 B \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{15 b^5 B \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\left(\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.\right.$$

$$\left.\left.\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(16 a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left(\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.\right.$$

$$\left.\left.\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(16 a\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left(3 (a-b)^2 (a+b)^2 \left(4 a^2 A+35 A b^2-20 a b B\right) \left(-a \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}\right) \Big/ \left(8 a \left(1+\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \left(a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)^{3/2}\right)-$$

$$\frac{33 a^4 A b \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{8 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{33 a^3 A b^2 \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{8 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{85 a^2 A b^3 \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{4 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{85 a A b^4 \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{4 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{105 A (a-b) b^5 \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{8 a \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}+$$

$$\frac{3 a^5 B \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{2 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{3 a^4 b B \operatorname{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{2 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}-$$

$$\frac{13\,a^3\,b^2\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{13\,a^2\,b^3\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{15\,a\,b^4\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,b^5\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Big/$$

$$\left(16\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Big/$$

$$\left(16\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(16\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)+$$

$$\left((a-b)\,b\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(16\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)+$$

$$\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\,a\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(170\,i\,a^2\,A\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(104\,i\,a^3\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24\, i\, a^4 A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^3 A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^2 A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(210\, i\, a A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\,i\,a^2\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-$$

$$60\,a\,b^4\,B+12\,a^5\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$228\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$72\,a^4\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)-$$

$$\left(\left(a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]-b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{3\,a^4\,b\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{26\,a^3\,b^2\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{26\,a^2\,b^3\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,a\,b^4\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{15\,b^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/\left(8\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(12\, i\, a^5\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(104\, i\, a^3\, b^2\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\Bigg(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(24\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-$$

$$60\,a\,b^4\,B+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)^2\Bigg)-$$

$$\Bigg(\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Bigg(12\,a^5\,A\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+6\,a^4\,A\,b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$120\,a^3\,A\,b^2\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+228\,a^2\,A\,b^3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$140\,a\,A\,b^4\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-210\,A\,b^5\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$72 a^4 b B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] - 144 a^3 b^2 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] +$$

$$80 a^2 b^3 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 120 a b^4 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] -$$

$$66 a^4 A b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 340 a^2 A b^3 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$210 A b^5 \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 24 a^5 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$208 a^3 b^2 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 120 a b^4 B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)$$

$$\sqrt{a+b-2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\Bigg(\frac{33 a^4 A b \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} - \frac{33 a^3 A b^2 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} -$$

$$\frac{85 a^2 A b^3 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} + \frac{85 a A b^4 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} +$$

$$\frac{105 A (a-b) b^5 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} -$$

$$\frac{3 a^5 B \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} + \frac{3 a^4 b B \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} +$$

$$\frac{26 a^3 b^2 B \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} - \frac{26 a^2 b^3 B \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} -$$

$$\frac{15\,a\,b^4\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{15\,b^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\left((a-b)\,b\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/\left(8\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/\left(8\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(170\,i\,a^2\,A\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(104\,i\,a^3\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24\, i\, a^4 A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^3 A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^2 A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(210\, i\, a A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\,i\,a^2\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-$$

$$60\,a\,b^4\,B+12\,a^5\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$228\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$72\,a^4\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)^2$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)+$$

$$\Bigg(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-2\,b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)$$

$$\left(\frac{33\,a^4\,A\,b\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^5\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{3\,a^4\,b\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{26\,a^3\,b^2\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{26\,a^2\,b^3\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,a\,b^4\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{15\,b^5\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(12\, i\, a^5\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(104\, i\, a^3\, b^2\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\Bigg(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(24\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Big(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+$$

$$48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-60\,a\,b^4\,B+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Big)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{3\,a^4\,b\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{26\,a^3\,b^2\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{26\,a^2\,b^3\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,a\,b^4\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{15\,b^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B\right)\right.$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/\left(8\,a\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(12\, i\, a^5\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(104\, i\, a^3\, b^2\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\Bigg(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(24\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\Big(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+$$

$$70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-60\,a\,b^4\,B+12\,a^5\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$33\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$12\,a^5\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Big)$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(3\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\left(\frac{33 a^4 A b \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{33 a^3 A b^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\right.$$

$$\frac{85 a^2 A b^3 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{85 a A b^4 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{105 A (a-b) b^5 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{3 a^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{3 a^4 b B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{26 a^3 b^2 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{26 a^2 b^3 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{15 a b^4 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{15 b^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(8 a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/\Bigg(8\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)-$$

$$\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4\,A\,b\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2\,A\,b^3\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(104\,i\,a^3\,b^2\,B\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(60\,i\,a\,b^4\,B\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\,i\,A\,b^5\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\Bigg(2\, \Bigg(-12 a^5 A+15 a^4 A b-66 a^3 A b^2-128 a^2 A b^3+70 a A b^4+105 A b^5-12 a^5 B+48 a^4 b B+80 a^3 b^2 B-$$

$$40 a^2 b^3 B-60 a b^4 B+12 a^5 A\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+6 a^4 A b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+120 a^3 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)+$$

$$\Bigg(\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Bigg(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{3 a^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{3 a^4 b B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{26 a^3 b^2 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{26 a^2 b^3 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{15 a b^4 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{15 b^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(8 a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(8 a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left.\frac{3 (a-b)^2 (a+b)^2 \left(4 a^2 A+35 A b^2-20 a b B\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

$$\left(\frac{-a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+b \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}-\right.$$

$$\left.\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)$$

$$\left(-\left(33\, i\, a^4 A b \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) + \left(170\, i\, a^2 A b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) - \left(105\, i\, A b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(12\, i\, a^5 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(104\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\frac{12\, i\, a^5 A\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{39\, i\, a^4\, A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{120\, i\, a^3\, A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{58\, i\, a^2\, A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{40\, i\, a^3 b^2 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2 b^3 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a b^4 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4 A b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^3 A b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)\Bigg)\Bigg) \Big/$$

$$\left(2 \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \Big(-12 a^5 A+15 a^4 A b-66 a^3 A b^2-128 a^2 A b^3+\right.$$

$$70 a A b^4+105 A b^5-12 a^5 B+48 a^4 b B+80 a^3 b^2 B-40 a^2 b^3 B-60 a b^4 B+12 a^5 A\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$6 a^4 A b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+120 a^3 A b^2\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+228 a^2 A b^3\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$140 a A b^4\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-210 A b^5\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-72 a^4 b B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$144 a^3 b^2 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+80 a^2 b^3 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+120 a b^4 B\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+$$

$$12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4+60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}$$

$$\Bigg(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3 a^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{3 a^4 b B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{26 a^3 b^2 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{26 a^2 b^3 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{15 a b^4 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{15 b^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(8 a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B\right)\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/\left(8 a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left.\frac{3 (a-b)^2 (a+b)^2 \left(4 a^2 A+35 A b^2-20 a b B\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4 a\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

$$\left(\left(33 i a^4 A b\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\Bigg(85\,i\,a^2\,A\,b^3\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\Bigg(105\,i\,A\,b^5\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4\right)^{3/2}\right)-$$

$$\left(6\,i\,a^5 B\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}$$

$$\left.\left(-2a\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]+2(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^3\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4\right)^{3/2}\right)+$$

$$\left(52\,i\,a^3b^2 B\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}$$

$$\left.\left(-2a\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]+2(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+dx)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^3\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2a\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^4\right)^{3/2}\right)-$$

$$\left(30\,i\,a\,b^4 B\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[\right.\right.\right.$$

$$\left.i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(6\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(2\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)\right)+$$

$$\left(29\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)\right)-$$

$$\left(70\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)\right)-$$

$$\left(105\,i\,A\,b^5\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right/\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)\right)-$$

$$\left(6\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\, \left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right) -$$

$$\left(36\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\, \left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right) -$$

$$\left(20\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\, \left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right) +$$

$$\left(40\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(30\,i\,a\,b^4\,B\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(12\,i\,a^5\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(12\,i\,a^4\,A\,b\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\Bigg(93 i a^3 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\Bigg(93 i a^2 A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\Bigg(105 i a A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(105\, i\, A\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(60\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(60\,i\,a\,b^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.$$

$$\left.2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+\right.\right.$$

$$\left.\left.(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+\frac{6\,a^5\,A\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{39\,a^4\,A\,b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{60\,a^3\,A\,b^2\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{29\,a^2\,A\,b^3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{70\,a\,A\,b^4\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{105\,A\,b^5\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{2\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{6\,a^5\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{36\,a^4\,b\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{20\,a^3\,b^2\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{40\,a^2\,b^3\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{30\,a\,b^4\,B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{12\,a^5\,A\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{12\,a^4\,A\,b\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{93\,a^3\,A\,b^2\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{93\,a^2\,A\,b^3\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{105\, a\, A\, b^4\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, A\, b^5\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{60\, a^4\, b\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{60\, a^3\, b^2\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{60\, a^2\, b^3\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{60\, a\, b^4\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\left(33\, i\, a^4\, A\, (a-b)\, b\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(85\, i\, a^2\, A\, (a-b)\, b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\right.\right.\right.$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]\Bigg)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(105\,i\,A\,(a-b)\,b^5\Bigg(\mathrm{EllipticE}\Bigg[i\,\mathrm{ArcSinh}\Bigg[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]-\mathrm{EllipticF}\Bigg[i\,\mathrm{ArcSinh}\Bigg[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]\Bigg)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a^5\,(a-b)\,B\Bigg(\mathrm{EllipticE}\Bigg[i\,\mathrm{ArcSinh}\Bigg[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]-\mathrm{EllipticF}\Bigg[i\,\mathrm{ArcSinh}\Bigg[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]\Bigg)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(52\,i\,a^3\,(a-b)\,b^2\,B\Bigg(\mathrm{EllipticE}\Bigg[i\,\mathrm{ArcSinh}\Bigg[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]-\mathrm{EllipticF}\Bigg[i\,\mathrm{ArcSinh}\Bigg[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg],\ \frac{a+b}{a-b}\Bigg]\Bigg)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(30\, i\, a\, (a-b)\, b^4\, B\left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(6\, i\, a^5\, A\, (a-b)\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(39\, i\, a^4\, A\, (a-b)\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\, i\, a^3\, A\, (a-b)\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(29\,i\,a^2\,A\,(a-b)\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(70\,i\,a\,A\,(a-b)\,b^4\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(105\,i\,A\,(a-b)\,b^5\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(6\,i\,a^5\,(a-b)\,B\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(36\,i\,a^4\,(a-b)\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(20\,i\,a^3\,(a-b)\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(40\,i\,a^2\,(a-b)\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(30\, i\, a\, (a-b)\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(12\, i\, a^5\, A\, (a-b)\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(12\, i\, a^4\, A\, (a-b)\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(93\, i\, a^3\, A\, (a-b)\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(93\,i\,a^2\,A\,(a-b)\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(105\,i\,a\,A\,(a-b)\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(105\,i\,A\,(a-b)\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a^4\,(a-b)\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(60 i a^3 (a-b) b^2 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(60 i a^2 (a-b) b^3 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(60 i a (a-b) b^4 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(33\, i\, a^4 A b \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(85\, i\, a^2 A b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(105\, i\, A b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6\, i\, a^5 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(52\,i\,a^3\,b^2\,B\,\Bigg(\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]-\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(30\,i\,a\,b^4\,B\,\Bigg(\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]-\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(6\,i\,a^5\,A\,\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(39 i a^4 A b \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(60 i a^3 A b^2 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(29 i a^2 A b^3 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(70\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(6\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(36\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(20\,i\,a^3 b^2 B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(40\,i\,a^2 b^3 B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(30\,i\,a\,b^4 B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}-\right.$$

$$\left(12 i a^5 A \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}-\right.$$

$$\left(12 i a^4 A b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}-\right.$$

$$\left(93 i a^3 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}-\right.$$

$$\left(93\, i\, a^2 A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(105\, i\, a A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(105\, i\, A b^5 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(60\, i\, a^4 b B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a^3\,b^2\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\,i\,a^2\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\,i\,a\,b^4\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(33 i a^4 A b\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(170 i a^2 A b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(105 i A b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(104\,i\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\, i\, a\, b^4\, B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left.\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\right)\Big/$$

$$\left(\left(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-\right.\right.$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B+12\,a^5\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a^3\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$33\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\left.12\,a^5\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)$$

$$\left.\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}\,(A+B\,\text{Sec}[c+d\,x])}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 10,\ 0\right\}$$

$$\frac{2\left(5aAb-5a^2B-3b^2B\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5b^3d}+$$

$$\frac{2(Ab-aB)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3b^2d}+$$

$$\frac{2a^2(Ab-aB)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^3(a+b)d}-$$

$$\frac{2\left(5aAb-5a^2B-3b^2B\right)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{5b^3d}+\frac{2(Ab-aB)\text{Sec}[c+dx]^{3/2}\text{Sin}[c+dx]}{3b^2d}+\frac{2B\text{Sec}[c+dx]^{5/2}\text{Sin}[c+dx]}{5bd}$$

$$-\frac{1}{30b^3d}\left(-\left(2\left(-40aAb^2+40a^2bB+18b^3B\right)\text{Cos}[c+dx]^2\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\right.\right.$$

$$\left.(a+b\text{Sec}[c+dx])\sqrt{1-\text{Sec}[c+dx]^2}\ \text{Sin}[c+dx]\right)\Big/\left(a(b+a\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)\right)+$$

$$\frac{1}{b(b+a\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)}2\left(-45a^2Ab-10Ab^3+45a^3B+19ab^2B\right)\text{Cos}[c+dx]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]+\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\right)(a+b\text{Sec}[c+dx])$$

$$\sqrt{1-\text{Sec}[c+dx]^2}\ \text{Sin}[c+dx]-\frac{1}{a^2b(b+a\text{Cos}[c+dx])\left(1-\text{Cos}[c+dx]^2\right)\sqrt{\text{Sec}[c+dx]}\left(2-\text{Sec}[c+dx]^2\right)}$$

$$2\left(-15a^2Ab+15a^3B+9ab^2B\right)\text{Cos}[2(c+dx)](a+b\text{Sec}[c+dx])$$

$$\left(2ab-2ab\text{Sec}[c+dx]^2+2ab\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}+\right.$$

$$a(a-2b)\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}+$$

$$a^2\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}-$$

$$\left.\left.2b^2\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+dx]}\right],-1\right]\sqrt{\text{Sec}[c+dx]}\sqrt{1-\text{Sec}[c+dx]^2}\right)\text{Sin}[c+dx]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+dx]}\left(\frac{2\left(-5aAb+5a^2B+3b^2B\right)\text{Sin}[c+dx]}{5b^3}+\frac{2\text{Sec}[c+dx](Ab\text{Sin}[c+dx]-aB\text{Sin}[c+dx])}{3b^2}+\frac{2B\text{Sec}[c+dx]\text{Tan}[c+dx]}{5b}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+dx]^{5/2}(A+B\text{Sec}[c+dx])}{a+b\text{Sec}[c+dx]},x,9,0\right\}$$

$$-\frac{2(Ab-aB)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^2d}+$$

$$\frac{2B\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3bd}-$$

$$\frac{2a(Ab-aB)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^2(a+b)d}+$$

$$\frac{2(Ab-aB)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{b^2d}+\frac{2B\text{Sec}[c+dx]^{3/2}\text{Sin}[c+dx]}{3bd}$$

$$-\frac{1}{6 b^2 d}\left(-\left(2\left(6 A b^2-8 a b B\right)\operatorname{Cos}[c+d x]^2 \operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\right.\right.$$
$$\left.(a+b \operatorname{Sec}[c+d x])\sqrt{1-\operatorname{Sec}[c+d x]^2}\operatorname{Sin}[c+d x]\right)\Big/\left(a(b+a \operatorname{Cos}[c+d x])\left(1-\operatorname{Cos}[c+d x]^2\right)\right)+$$
$$\frac{1}{b(b+a \operatorname{Cos}[c+d x])\left(1-\operatorname{Cos}[c+d x]^2\right)}2\left(9 a A b-9 a^2 B-2 b^2 B\right)\operatorname{Cos}[c+d x]^2\left(\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]+\right.$$
$$\left.\operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\right)(a+b \operatorname{Sec}[c+d x])\sqrt{1-\operatorname{Sec}[c+d x]^2}\operatorname{Sin}[c+d x]-$$
$$\frac{1}{a^2 b(b+a \operatorname{Cos}[c+d x])\left(1-\operatorname{Cos}[c+d x]^2\right)\sqrt{\operatorname{Sec}[c+d x]}\left(2-\operatorname{Sec}[c+d x]^2\right)}2\left(3 a A b-3 a^2 B\right)\operatorname{Cos}[2(c+d x)]$$
$$(a+b \operatorname{Sec}[c+d x])\left(2 a b-2 a b \operatorname{Sec}[c+d x]^2+2 a b \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\right.$$
$$\sqrt{1-\operatorname{Sec}[c+d x]^2}+a(a-2 b)\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{1-\operatorname{Sec}[c+d x]^2}+$$
$$a^2 \operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{1-\operatorname{Sec}[c+d x]^2}-$$
$$\left.2 b^2 \operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{1-\operatorname{Sec}[c+d x]^2}\right)$$
$$\left.\operatorname{Sin}[c+d x]\right)+\frac{\sqrt{\operatorname{Sec}[c+d x]}\left(\frac{2(A b-a B)\operatorname{Sin}[c+d x]}{b^2}+\frac{2 B \operatorname{Tan}[c+d x]}{3 b}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]}{\operatorname{Sec}[c+d x]^{3/2}(a+b \operatorname{Sec}[c+d x])},x,8,0\right\}$$
$$-\frac{2(A b-a B)\sqrt{\operatorname{Cos}[c+d x]}\operatorname{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\operatorname{Sec}[c+d x]}}{a^2 d}+$$
$$\frac{2\left(a^2 A+3 A b^2-3 a b B\right)\sqrt{\operatorname{Cos}[c+d x]}\operatorname{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\operatorname{Sec}[c+d x]}}{3 a^3 d}-$$
$$\frac{2 b^2(A b-a B)\sqrt{\operatorname{Cos}[c+d x]}\operatorname{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\sqrt{\operatorname{Sec}[c+d x]}}{a^3(a+b) d}+\frac{2 A \operatorname{Sin}[c+d x]}{3 a d\sqrt{\operatorname{Sec}[c+d x]}}$$
$$-\frac{1}{6 a d}\left(-2 A\sqrt{\operatorname{Sec}[c+d x]}\operatorname{Sin}[2(c+d x)]+4 A \operatorname{Cot}[c+d x]\operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{-\operatorname{Tan}[c+d x]^2}+\frac{1}{b}\right.$$
$$2(A b-3 a B)\operatorname{Cot}[c+d x]\left(\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]+\operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\right)$$
$$\sqrt{-\operatorname{Tan}[c+d x]^2}+\frac{1}{a^2 b(b+a \operatorname{Cos}[c+d x])\operatorname{Sec}[c+d x]^{5/2}}6(-A b+a B)\operatorname{Csc}[c+d x](a+b \operatorname{Sec}[c+d x])$$
$$\left(2 a b-2 a b \operatorname{Sec}[c+d x]^2+2 a b \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{-\operatorname{Tan}[c+d x]^2}+\right.$$
$$a(a-2 b)\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{-\operatorname{Tan}[c+d x]^2}+$$
$$a^2 \operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{-\operatorname{Tan}[c+d x]^2}-$$
$$\left.\left.2 b^2 \operatorname{EllipticPi}\left[-\frac{b}{a},-\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right],-1\right]\sqrt{\operatorname{Sec}[c+d x]}\sqrt{-\operatorname{Tan}[c+d x]^2}\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Sec}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])},\ x,\ 9,\ 0\right\}$$

$$\frac{2\left(3\,a^2\,A+5\,A\,b^2-5\,a\,b\,B\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,a^3\,d}-$$

$$\frac{2\left(a^2\,A\,b+3\,A\,b^3-a^3\,B-3\,a\,b^2\,B\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a^4\,d}+$$

$$\frac{2\,b^3\,(A\,b-a\,B)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^4\,(a+b)\,d}+\frac{2\,A\,\text{Sin}[c+d\,x]}{5\,a\,d\,\text{Sec}[c+d\,x]^{3/2}}-\frac{2\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{3\,a^2\,d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{30\,a^2\,d}\left(-\left(2\left(8\,a\,A\,b+10\,a^2\,B\right)\text{Cos}[c+d\,x]^2\,\text{EllipticPi}\left[-\frac{b}{a},\ -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\right.\right.$$

$$\left.(a+b\,\text{Sec}[c+d\,x])\sqrt{1-\text{Sec}[c+d\,x]^2}\ \text{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)}\,2\left(9\,a^2\,A+5\,A\,b^2-5\,a\,b\,B\right)\text{Cos}[c+d\,x]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]+\text{EllipticPi}\left[-\frac{b}{a},\ -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\right)$$

$$(a+b\,\text{Sec}[c+d\,x])\sqrt{1-\text{Sec}[c+d\,x]^2}\ \text{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\text{Cos}[c+d\,x])\left(1-\text{Cos}[c+d\,x]^2\right)\sqrt{\text{Sec}[c+d\,x]}\ \left(2-\text{Sec}[c+d\,x]^2\right)}\,2\left(9\,a^2\,A+15\,A\,b^2-15\,a\,b\,B\right)\text{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\text{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\text{Sec}[c+d\,x]^2+2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\sqrt{\text{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\text{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\sqrt{\text{Sec}[c+d\,x]}\ \sqrt{1-\text{Sec}[c+d\,x]^2}+$$

$$a^2\,\text{EllipticPi}\left[-\frac{b}{a},\ -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\sqrt{\text{Sec}[c+d\,x]}\ \sqrt{1-\text{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\text{EllipticPi}\left[-\frac{b}{a},\ -\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\ -1\right]\sqrt{\text{Sec}[c+d\,x]}\ \sqrt{1-\text{Sec}[c+d\,x]^2}\right)\text{Sin}[c+d\,x]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+d\,x]}\ \left(\frac{A\,\text{Sin}[c+d\,x]}{10\,a}+\frac{(-A\,b+a\,B)\,\text{Sin}[2\,(c+d\,x)]}{3\,a^2}+\frac{A\,\text{Sin}[3\,(c+d\,x)]}{10\,a}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 10,\ 0\right\}$$

$$-\frac{\left(3\,a^2\,A\,b-2\,A\,b^3-5\,a^3\,B+4\,a\,b^2\,B\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{b^3\left(a^2-b^2\right)d}-$$

$$\frac{\left(3\,a\,A\,b-5\,a^2\,B+2\,b^2\,B\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,b^2\left(a^2-b^2\right)d}-$$

$$\frac{a\left(3\,a^2\,A\,b-5\,A\,b^3-5\,a^3\,B+7\,a\,b^2\,B\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{(a-b)\,b^3\,(a+b)^2\,d}+$$

$$\frac{\left(3\,a^2\,A\,b-2\,A\,b^3-5\,a^3\,B+4\,a\,b^2\,B\right)\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{b^3\left(a^2-b^2\right)d}-$$

$$\frac{\left(3\,a\,A\,b-5\,a^2\,B+2\,b^2\,B\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)d}+\frac{a\,(A\,b-a\,B)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{12\,(a-b)\,b^3\,(a+b)\,d}$$

$$\left(-\left(2\left(-24\,a^2\,A\,b^2+12\,A\,b^4+40\,a^3\,b\,B-28\,a\,b^3\,B\right)\,\text{Cos}[c+d\,x]^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\right.\right.$$

$$\left.(a+b\,\text{Sec}[c+d\,x])\,\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)}\,2\left(-27\,a^3\,A\,b+30\,a\,A\,b^3+45\,a^4\,B-44\,a^2\,b^2\,B-4\,b^4\,B\right)\,\text{Cos}[c+d\,x]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]+\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\text{Sec}[c+d\,x])$$

$$\sqrt{1-\text{Sec}[c+d\,x]^2}\,\text{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\text{Cos}[c+d\,x])\,\left(1-\text{Cos}[c+d\,x]^2\right)\,\sqrt{\text{Sec}[c+d\,x]}\,\left(2-\text{Sec}[c+d\,x]^2\right)}$$

$$2\left(-9\,a^3\,A\,b+6\,a\,A\,b^3+15\,a^4\,B-12\,a^2\,b^2\,B\right)\,\text{Cos}[2\,(c+d\,x)]\,(a+b\,\text{Sec}[c+d\,x])$$

$$\left(2\,a\,b-2\,a\,b\,\text{Sec}[c+d\,x]^2+2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}+\right.$$

$$a\,(a-2\,b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}+$$

$$a^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}-$$

$$\left.2\,b^2\,\text{EllipticPi}\left[-\frac{b}{a},\,-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{1-\text{Sec}[c+d\,x]^2}\right)\,\text{Sin}[c+d\,x]\Bigg)+$$

$$\frac{\sqrt{\text{Sec}[c+d\,x]}\,\left(\frac{\left(-3\,a^2\,A\,b+2\,A\,b^3+5\,a^3\,B-4\,a\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{b^3\,\left(-a^2+b^2\right)}+\frac{a^2\,A\,b\,\text{Sin}[c+d\,x]-a^3\,B\,\text{Sin}[c+d\,x]}{b^2\,\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])}+\frac{2\,B\,\text{Tan}[c+d\,x]}{3\,b^2}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^2},\,x,\,9,\,0\right\}$$

$$\frac{\left(a\,A\,b-3\,a^2\,B+2\,b^2\,B\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{b^2\,\left(a^2-b^2\right)\,d}+$$

$$\frac{(A\,b-a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{b\,\left(a^2-b^2\right)\,d}+$$

$$\frac{\left(a^2\,A\,b-3\,A\,b^3-3\,a^3\,B+5\,a\,b^2\,B\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\text{Sec}[c+d\,x]}}{(a-b)\,b^2\,(a+b)^2\,d}-$$

$$\frac{\left(a\,A\,b-3\,a^2\,B+2\,b^2\,B\right)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{b^2\,\left(a^2-b^2\right)\,d}+\frac{a\,(A\,b-a\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$-\frac{1}{4\,(a-b)\,b^2\,(a+b)\,d}\left(-\left(2\left(-4\,a\,A\,b^2+8\,a^2\,b\,B-4\,b^3\,B\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right](a+b\,\mathrm{Sec}[c+d\,x])\right.\right.$$

$$\left.\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\left(-3\,a^2\,A\,b+4\,A\,b^3+9\,a^3\,B-10\,a\,b^2\,B\right)\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\left(-a^2\,A\,b+3\,a^3\,B-2\,a\,b^2\,B\right)\mathrm{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(\frac{\left(a\,A\,b-3\,a^2\,B+2\,b^2\,B\right)\mathrm{Sin}[c+d\,x]}{b^2\left(-a^2+b^2\right)}+\frac{-a\,A\,b\,\mathrm{Sin}[c+d\,x]+a^2\,B\,\mathrm{Sin}[c+d\,x]}{b\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$-\frac{(A\,b-a\,B)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{b\left(a^2-b^2\right)d}-$$

$$\frac{(A\,b-a\,B)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\left(a^2-b^2\right)d}+$$

$$\frac{\left(a^2\,A\,b+A\,b^3+a^3\,B-3\,a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,(a-b)\,b\,(a+b)^2\,d}+$$

$$\frac{a\,(A\,b-a\,B)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{4\,b\,(-a+b)\,(a+b)\,d}\left(-\left(2\left(4\,A\,b^2-4\,a\,b\,B\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right](a+b\,\mathrm{Sec}[c+d\,x])\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)}2\left(-a\,A\,b-3\,a^2\,B+4\,b^2\,B\right)\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\left(2-\mathrm{Sec}[c+d\,x]^2\right)}2\left(a\,A\,b-a^2\,B\right)\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(-\frac{(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{b\left(-a^2+b^2\right)}+\frac{A\,b\,\mathrm{Sin}[c+d\,x]-a\,B\,\mathrm{Sin}[c+d\,x]}{\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$\frac{(A\,b-a\,B)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a\left(a^2-b^2\right)d}+\frac{\left(2\,a^2\,A-A\,b^2-a\,b\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\left(a^2-b^2\right)d}-\frac{\left(3\,a^2\,A\,b-A\,b^3-a^3\,B-a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,(a-b)\,(a+b)^2\,d}-\frac{(A\,b-a\,B)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{4\,(a-b)\,(a+b)\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^2}\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(-\left(2\,(4\,a\,A-4\,b\,B)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right.\right.$$

$$\left.\left.\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}$$

$$2\,(-A\,b+a\,B)\,\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}\,2\,(A\,b-a\,B)\,\mathrm{Cos}[2\,(c+d\,x)]$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\,\mathrm{Sin}[c+d\,x]\Bigg)+$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\,\left(\frac{(-A\,b+a\,B)\,\mathrm{Sin}[c+d\,x]}{a\,(a^2-b^2)}-\frac{A\,b^2\,\mathrm{Sin}[c+d\,x]-a\,b\,B\,\mathrm{Sin}[c+d\,x]}{a\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^2}$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,8,\,0\right\}$$

$$\frac{\left(2\,a^2\,A-3\,A\,b^2+a\,b\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a^2\,\left(a^2-b^2\right)\,d}-$$

$$\frac{\left(4\,a^2\,A\,b-3\,A\,b^3-2\,a^3\,B+a\,b^2\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a^3\,\left(a^2-b^2\right)\,d}+$$

$$\frac{b\,\left(5\,a^2\,A\,b-3\,A\,b^3-3\,a^3\,B+a\,b^2\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a^3\,(a-b)\,(a+b)^2\,d}+$$

$$\frac{b\,(A\,b-a\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{4\,a\,(-a+b)\,(a+b)\,d}\left(-\left(2\left(4\,a\,A\,b-4\,a^2\,B\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right](a+b\,\mathrm{Sec}[c+d\,x])\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)}2\left(-2\,a^2\,A+A\,b^2+a\,b\,B\right)\mathrm{Cos}[c+d\,x]^2\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\left(2-\mathrm{Sec}[c+d\,x]^2\right)}2\left(-2\,a^2\,A+3\,A\,b^2-a\,b\,B\right)\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(-\frac{b\,(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{a^2\left(-a^2+b^2\right)}-\frac{-A\,b^3\,\mathrm{Sin}[c+d\,x]+a\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{a^2\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,9,\,0\right\}$$

$$-\frac{\left(4\,a^2\,A\,b-5\,A\,b^3-2\,a^3\,B+3\,a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^3\left(a^2-b^2\right)d}+\frac{\left(2\,a^4\,A+16\,a^2\,A\,b^2-15\,A\,b^4-12\,a^3\,b\,B+9\,a\,b^3\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a^4\left(a^2-b^2\right)d}-\frac{b^2\left(7\,a^2\,A\,b-5\,A\,b^3-5\,a^3\,B+3\,a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{a^4\,(a-b)\,(a+b)^2\,d}+\frac{\left(2\,a^2\,A-5\,A\,b^2+3\,a\,b\,B\right)\mathrm{Sin}[c+d\,x]}{3\,a^2\left(a^2-b^2\right)d\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{b\,(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{12 a^2 (a-b) (a+b) d}$$

$$\left(-\left(2 \left(4 a^3 A+8 a A b^2-12 a^2 b B\right) \text{Cos}[c+d x]^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] (a+b \text{Sec}[c+d x])\right.\right.$$

$$\left.\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]\right) \Big/ \left(a (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)\right)+$$

$$\frac{1}{b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)} 2 \left(-8 a^2 A b+5 A b^3+6 a^3 B-3 a b^2 B\right) \text{Cos}[c+d x]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]+\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\right) (a+b \text{Sec}[c+d x])$$

$$\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]-\frac{1}{a^2 b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right) \sqrt{\text{Sec}[c+d x]} \left(2-\text{Sec}[c+d x]^2\right)}$$

$$2 \left(-12 a^2 A b+15 A b^3+6 a^3 B-9 a b^2 B\right) \text{Cos}[2 (c+d x)] (a+b \text{Sec}[c+d x])$$

$$\left(2 a b-2 a b \text{Sec}[c+d x]^2+2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+\right.$$

$$a (a-2 b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+$$

$$a^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}-$$

$$\left.\left.2 b^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}\right) \text{Sin}[c+d x]\right)+$$

$$\frac{\sqrt{\text{Sec}[c+d x]} \left(\frac{b^2 (A b-a B) \text{Sin}[c+d x]}{a^3 \left(-a^2+b^2\right)}+\frac{-A b^4 \text{Sin}[c+d x]+a b^3 B \text{Sin}[c+d x]}{a^3 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])}+\frac{A \text{Sin}[2 (c+d x)]}{3 a^2}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^{9/2} (A+B \text{Sec}[c+d x])}{(a+b \text{Sec}[c+d x])^3}, x, 11, 0\right\}$$

$$-\frac{\left(15 a^4 A b-29 a^2 A b^3+8 A b^5-35 a^5 B+65 a^3 b^2 B-24 a b^4 B\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 b^4 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(15 a^3 A b-33 a A b^3-35 a^4 B+61 a^2 b^2 B-8 b^4 B\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{12 b^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{a \left(15 a^4 A b-38 a^2 A b^3+35 A b^5-35 a^5 B+86 a^3 b^2 B-63 a b^4 B\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 (a-b)^2 b^4 (a+b)^3 d}+$$

$$\frac{\left(15 a^4 A b-29 a^2 A b^3+8 A b^5-35 a^5 B+65 a^3 b^2 B-24 a b^4 B\right) \sqrt{\text{Sec}[c+d x]} \text{Sin}[c+d x]}{4 b^4 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(15 a^3 A b-33 a A b^3-35 a^4 B+61 a^2 b^2 B-8 b^4 B\right) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{12 b^3 \left(a^2-b^2\right)^2 d}+$$

$$\frac{a (A b-a B) \text{Sec}[c+d x]^{7/2} \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{a \left(3 a^2 A b-9 A b^3-7 a^3 B+13 a b^2 B\right) \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{48\,(a-b)^2\,b^4\,(a+b)^2\,d}\Bigg(-\frac{1}{a\,(b+a\,\mathrm{Cos}[c+d\,x])\,(1-\mathrm{Cos}[c+d\,x]^2)}\,2\,(-120\,a^4\,A\,b^2+240\,a^2\,A\,b^4-48\,A\,b^6+280\,a^5\,b\,B-512\,a^3\,b^3\,B+160\,a\,b^5\,B)$$

$$\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,(1-\mathrm{Cos}[c+d\,x]^2)}\,2\,(-135\,a^5\,A\,b+285\,a^3\,A\,b^3-168\,a\,A\,b^5+315\,a^6\,B-641\,a^4\,b^2\,B+328\,a^2\,b^4\,B+16\,b^6\,B)$$

$$\mathrm{Cos}[c+d\,x]^2\,\Big(\mathrm{EllipticF}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]+\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\Big)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-$$

$$\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,(1-\mathrm{Cos}[c+d\,x]^2)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(2-\mathrm{Sec}[c+d\,x]^2)}$$

$$2\,(-45\,a^5\,A\,b+87\,a^3\,A\,b^3-24\,a\,A\,b^5+105\,a^6\,B-195\,a^4\,b^2\,B+72\,a^2\,b^4\,B)\,\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\Big(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a\,(a-2\,b)\,\mathrm{EllipticF}\Big[\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$2\,b^2\,\mathrm{EllipticPi}\Big[-\frac{b}{a},\,-\mathrm{ArcSin}\Big[\sqrt{\mathrm{Sec}[c+d\,x]}\Big],\,-1\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\Big)\,\mathrm{Sin}[c+d\,x]\Big)+$$

$$\frac{1}{d}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\Bigg(\frac{(15\,a^4\,A\,b-29\,a^2\,A\,b^3+8\,A\,b^5-35\,a^5\,B+65\,a^3\,b^2\,B-24\,a\,b^4\,B)\,\mathrm{Sin}[c+d\,x]}{4\,b^4\,(-a^2+b^2)^2}+$$

$$\frac{a^2\,A\,b\,\mathrm{Sin}[c+d\,x]-a^3\,B\,\mathrm{Sin}[c+d\,x]}{2\,b^2\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+$$

$$\frac{-5\,a^4\,A\,b\,\mathrm{Sin}[c+d\,x]+11\,a^2\,A\,b^3\,\mathrm{Sin}[c+d\,x]+9\,a^5\,B\,\mathrm{Sin}[c+d\,x]-15\,a^3\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{4\,b^3\,(-a^2+b^2)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{2\,B\,\mathrm{Tan}[c+d\,x]}{3\,b^3}\Bigg)$$

Incorrect antiderivative:

$$\Big\{\frac{\mathrm{Sec}[c+d\,x]^{7/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,10,\,0\Big\}$$

$$\frac{(3\,a^3\,A\,b-9\,a\,A\,b^3-15\,a^4\,B+29\,a^2\,b^2\,B-8\,b^4\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^3\,(a^2-b^2)^2\,d}+$$

$$\frac{(a^2\,A\,b-7\,A\,b^3-5\,a^3\,B+11\,a\,b^2\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,(a^2-b^2)^2\,d}+$$

$$\frac{(3\,a^4\,A\,b-6\,a^2\,A\,b^3+15\,A\,b^5-15\,a^5\,B+38\,a^3\,b^2\,B-35\,a\,b^4\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\Big[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,(a-b)^2\,b^3\,(a+b)^3\,d}-$$

$$\frac{(3\,a^3\,A\,b-9\,a\,A\,b^3-15\,a^4\,B+29\,a^2\,b^2\,B-8\,b^4\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b^3\,(a^2-b^2)^2\,d}+$$

$$\frac{a\,(A\,b-a\,B)\,\mathrm{Sec}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{2\,b\,(a^2-b^2)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{a\,(a^2\,A\,b-7\,A\,b^3-5\,a^3\,B+11\,a\,b^2\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,(a^2-b^2)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{1}{16\,(a-b)^2\,b^3\,(a+b)^2\,d}\Bigg(-\frac{1}{a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(-8\,a^3\,A\,b^2+32\,a\,A\,b^4+40\,a^4\,b\,B-80\,a^2\,b^3\,B+16\,b^5\,B\right)\,\mathrm{Cos}[c+d\,x]^2$$

$$\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(-9\,a^4\,A\,b+19\,a^2\,A\,b^3-16\,A\,b^5+45\,a^5\,B-95\,a^3\,b^2\,B+56\,a\,b^4\,B\right)\,\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}$$

$$2\,\left(-3\,a^4\,A\,b+9\,a^2\,A\,b^3+15\,a^5\,B-29\,a^3\,b^2\,B+8\,a\,b^4\,B\right)\,\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\Big(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\Big)\,\mathrm{Sin}[c+d\,x]\Bigg)+$$

$$\frac{1}{d}\sqrt{\mathrm{Sec}[c+d\,x]}\,\Bigg(\frac{\left(-3\,a^3\,A\,b+9\,a\,A\,b^3+15\,a^4\,B-29\,a^2\,b^2\,B+8\,b^4\,B\right)\,\mathrm{Sin}[c+d\,x]}{4\,b^3\,\left(-a^2+b^2\right)^2}+$$

$$\frac{-a\,A\,b\,\mathrm{Sin}[c+d\,x]+a^2\,B\,\mathrm{Sin}[c+d\,x]}{2\,b\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+$$

$$\frac{a^3\,A\,b\,\mathrm{Sin}[c+d\,x]-7\,a\,A\,b^3\,\mathrm{Sin}[c+d\,x]-5\,a^4\,B\,\mathrm{Sin}[c+d\,x]+11\,a^2\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B-7\,a\,b^2\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a\,b\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^4\,A\,b-10\,a^2\,A\,b^3-3\,A\,b^5+3\,a^5\,B-6\,a^3\,b^2\,B+15\,a\,b^4\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a\,(a-b)^2\,b^2\,(a+b)^3\,d}+$$

$$\frac{a\,(A\,b-a\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-\frac{a\,\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16\,(a-b)^2\,b^2\,(a+b)^2\,d}\left(-\left(2\left(8\,a^2\,A\,b^2+16\,A\,b^4+8\,a^3\,b\,B-32\,a\,b^3\,B\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right](a+b\,\mathrm{Sec}[c+d\,x])\right.\right.$$

$$\left.\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\left(3\,a^3\,A\,b-9\,a\,A\,b^3+9\,a^4\,B-19\,a^2\,b^2\,B+16\,b^4\,B\right)\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\left(2-\mathrm{Sec}[c+d\,x]^2\right)}$$

$$2\left(a^3\,A\,b+5\,a\,A\,b^3+3\,a^4\,B-9\,a^2\,b^2\,B\right)\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+\right.$$

$$a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(-\frac{\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\mathrm{Sin}[c+d\,x]}{4\,b^2\left(-a^2+b^2\right)^2}+\frac{A\,b\,\mathrm{Sin}[c+d\,x]-a\,B\,\mathrm{Sin}[c+d\,x]}{2\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{3\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+3\,A\,b^3\,\mathrm{Sin}[c+d\,x]+a^3\,B\,\mathrm{Sin}[c+d\,x]-7\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{4\,b\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$-\frac{\left(5\,a^2\,A\,b+A\,b^3-a^3\,B-5\,a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a\,b\left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(7\,a^2\,A\,b-A\,b^3-3\,a^3\,B-3\,a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(3\,a^4\,A\,b+10\,a^2\,A\,b^3-A\,b^5+a^5\,B-10\,a^3\,b^2\,B-3\,a\,b^4\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\,(a-b)^2\,b\,(a+b)^3\,d}+$$

$$\frac{a\,(A\,b-a\,B)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B-7\,a\,b^2\,B\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b\left(a^2-b^2\right)^2 d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16\,(a-b)^2\,b\,(a+b)^2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^3}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^2$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(-\left(2\left(-24\,a\,A\,b^2+8\,a^2\,b\,B+16\,b^3\,B\right)\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right.\right.$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}$$

$$2\left(-5\,a^2\,A\,b-A\,b^3+a^3\,B+5\,a\,b^2\,B\right)\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+\right.$$

$$a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^3}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{\left(5\,a^2\,A\,b+A\,b^3-a^3\,B-5\,a\,b^2\,B\right)\mathrm{Sin}[c+d\,x]}{4\,a\,b\,\left(-a^2+b^2\right)^2}+\frac{-A\,b^2\,\mathrm{Sin}[c+d\,x]+a\,b\,B\,\mathrm{Sin}[c+d\,x]}{2\,a\,\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{-7\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+A\,b^3\,\mathrm{Sin}[c+d\,x]+3\,a^3\,B\,\mathrm{Sin}[c+d\,x]+3\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{4\,a\,\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{\left(9\,a^2\,A\,b-3\,A\,b^3-5\,a^3\,B-a\,b^2\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(8\,a^4\,A-5\,a^2\,A\,b^2+3\,A\,b^4-7\,a^3\,b\,B+a\,b^3\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{\left(15\,a^4\,A\,b-6\,a^2\,A\,b^3+3\,A\,b^5-3\,a^5\,B-10\,a^3\,b^2\,B+a\,b^4\,B\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,(a-b)^2\,(a+b)^3\,d}-$$

$$\frac{(A\,b-a\,B)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-\frac{\left(7\,a^2\,A\,b-A\,b^3-3\,a^3\,B-3\,a\,b^2\,B\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,a\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16\,a\,(a-b)^2\,(a+b)^2\,d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^3}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^2$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(-\left(2\,\left(16\,a^3\,A+8\,a\,A\,b^2-24\,a^2\,b\,B\right)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right.\right.$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]\right)\Big/\left(a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\right)+$$

$$\frac{1}{b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)}\,2\,\left(-5\,a^2\,A\,b-A\,b^3+a^3\,B+5\,a\,b^2\,B\right)\,\mathrm{Cos}[c+d\,x]^2$$

$$\left(\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]+\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\right)\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\,\mathrm{Sin}[c+d\,x]-\frac{1}{a^2\,b\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(1-\mathrm{Cos}[c+d\,x]^2\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(2-\mathrm{Sec}[c+d\,x]^2\right)}$$

$$2\,\left(9\,a^2\,A\,b-3\,A\,b^3-5\,a^3\,B-a\,b^2\,B\right)\,\mathrm{Cos}[2\,(c+d\,x)]\,(a+b\,\mathrm{Sec}[c+d\,x])$$

$$\left(2\,a\,b-2\,a\,b\,\mathrm{Sec}[c+d\,x]^2+2\,a\,b\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+\right.$$

$$a\,(a-2\,b)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}+$$

$$a^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}-$$

$$\left.2\,b^2\,\mathrm{EllipticPi}\left[-\frac{b}{a},\,-\mathrm{ArcSin}\left[\sqrt{\mathrm{Sec}[c+d\,x]}\right],\,-1\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{1-\mathrm{Sec}[c+d\,x]^2}\right)\,\mathrm{Sin}[c+d\,x]\Bigg)+$$

$$\frac{1}{d\,(B+A\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^3}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{\left(-9\,a^2\,A\,b+3\,A\,b^3+5\,a^3\,B+a\,b^2\,B\right)\,\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(-a^2+b^2\right)^2}+\frac{A\,b^3\,\mathrm{Sin}[c+d\,x]-a\,b^2\,B\,\mathrm{Sin}[c+d\,x]}{2\,a^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{11\,a^2\,A\,b^2\,\mathrm{Sin}[c+d\,x]-5\,A\,b^4\,\mathrm{Sin}[c+d\,x]-7\,a^3\,b\,B\,\mathrm{Sin}[c+d\,x]+a\,b^3\,B\,\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3},\,x,\,9,\,0\right\}$$

$$\frac{\left(8\,a^4\,A-29\,a^2\,A\,b^2+15\,A\,b^4+9\,a^3\,b\,B-3\,a\,b^3\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^3\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{\left(24\,a^4\,A\,b-33\,a^2\,A\,b^3+15\,A\,b^5-8\,a^5\,B+5\,a^3\,b^2\,B-3\,a\,b^4\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^4\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{b\,\left(35\,a^4\,A\,b-38\,a^2\,A\,b^3+15\,A\,b^5-15\,a^5\,B+6\,a^3\,b^2\,B-3\,a\,b^4\,B\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,a^4\,(a-b)^2\,(a+b)^3\,d}+$$

$$\frac{b\,(A\,b-a\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}+\frac{b\,\left(11\,a^2\,A\,b-5\,A\,b^3-7\,a^3\,B+a\,b^2\,B\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,a^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{16 a^2 (a-b)^2 (a+b)^2 d}$$

$$\left(-\left(2 \left(-32 a^3 A b+8 a A b^3+16 a^4 B+8 a^2 b^2 B\right) \text{Cos}[c+d x]^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] (a+b \text{Sec}[c+d x])\right.\right.$$

$$\left.\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]\right) \Big/ \left(a (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)\right)+$$

$$\frac{1}{b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right)} 2 \left(8 a^4 A-7 a^2 A b^2+5 A b^4-5 a^3 b B-a b^3 B\right) \text{Cos}[c+d x]^2$$

$$\left(\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]+\text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right]\right) (a+b \text{Sec}[c+d x])$$

$$\sqrt{1-\text{Sec}[c+d x]^2} \text{Sin}[c+d x]-\frac{1}{a^2 b (b+a \text{Cos}[c+d x]) \left(1-\text{Cos}[c+d x]^2\right) \sqrt{\text{Sec}[c+d x]} \left(2-\text{Sec}[c+d x]^2\right)}$$

$$2 \left(8 a^4 A-29 a^2 A b^2+15 A b^4+9 a^3 b B-3 a b^3 B\right) \text{Cos}[2 (c+d x)] (a+b \text{Sec}[c+d x])$$

$$\left(2 a b-2 a b \text{Sec}[c+d x]^2+2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+\right.$$

$$a (a-2 b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}+$$

$$a^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}-$$

$$\left.\left.2 b^2 \text{EllipticPi}\left[-\frac{b}{a},-\text{ArcSin}\left[\sqrt{\text{Sec}[c+d x]}\right],-1\right] \sqrt{\text{Sec}[c+d x]} \sqrt{1-\text{Sec}[c+d x]^2}\right) \text{Sin}[c+d x]\right)+$$

$$\frac{1}{d} \sqrt{\text{Sec}[c+d x]} \left(-\frac{b \left(-13 a^2 A b+7 A b^3+9 a^3 B-3 a b^2 B\right) \text{Sin}[c+d x]}{4 a^3 \left(-a^2+b^2\right)^2}+\frac{-A b^4 \text{Sin}[c+d x]+a b^3 B \text{Sin}[c+d x]}{2 a^3 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^2}+\right.$$

$$\left.\frac{-15 a^2 A b^3 \text{Sin}[c+d x]+9 A b^5 \text{Sin}[c+d x]+11 a^3 b^2 B \text{Sin}[c+d x]-5 a b^4 B \text{Sin}[c+d x]}{4 a^3 \left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \text{Sec}[c+d x]}{\text{Sec}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])^3}, x, 10, 0\right\}$$

$$-\frac{\left(24 a^4 A b-65 a^2 A b^3+35 A b^5-8 a^5 B+29 a^3 b^2 B-15 a b^4 B\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticE}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^4 \left(a^2-b^2\right)^2 d}+$$

$$\frac{1}{12 a^5 \left(a^2-b^2\right)^2 d} \left(8 a^6 A+128 a^4 A b^2-223 a^2 A b^4+105 A b^6-72 a^5 b B+99 a^3 b^3 B-45 a b^5 B\right)$$

$$\sqrt{\text{Cos}[c+d x]} \text{EllipticF}\left[\frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}-$$

$$\frac{b^2 \left(63 a^4 A b-86 a^2 A b^3+35 A b^5-35 a^5 B+38 a^3 b^2 B-15 a b^4 B\right) \sqrt{\text{Cos}[c+d x]} \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2} (c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^5 (a-b)^2 (a+b)^3 d}+$$

$$\frac{\left(8 a^4 A-61 a^2 A b^2+35 A b^4+33 a^3 b B-15 a b^3 B\right) \text{Sin}[c+d x]}{12 a^3 \left(a^2-b^2\right)^2 d \sqrt{\text{Sec}[c+d x]}}+$$

$$\frac{b (A b-a B) \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d \sqrt{\text{Sec}[c+d x]} (a+b \text{Sec}[c+d x])^2}+\frac{b \left(13 a^2 A b-7 A b^3-9 a^3 B+3 a b^2 B\right) \text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d \sqrt{\text{Sec}[c+d x]} (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^3 (a-b)^2 (a+b)^2 d}$$

$$\Bigg(-\frac{1}{a (b+a \operatorname{Cos}[c+d x]) \left(1-\operatorname{Cos}[c+d x]^2\right)} 2 \left(16 a^5 A+112 a^3 A b^2-56 a A b^4-96 a^4 b B+24 a^2 b^3 B\right) \operatorname{Cos}[c+d x]^2$$

$$\operatorname{EllipticPi}\left[-\frac{b}{a}, -\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right] (a+b \operatorname{Sec}[c+d x]) \sqrt{1-\operatorname{Sec}[c+d x]^2} \operatorname{Sin}[c+d x]+$$

$$\frac{1}{b (b+a \operatorname{Cos}[c+d x]) \left(1-\operatorname{Cos}[c+d x]^2\right)} 2 \left(-56 a^4 A b+73 a^2 A b^3-35 A b^5+24 a^5 B-21 a^3 b^2 B+15 a b^4 B\right) \operatorname{Cos}[c+d x]^2$$

$$\left(\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right]+\operatorname{EllipticPi}\left[-\frac{b}{a}, -\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right]\right) (a+b \operatorname{Sec}[c+d x])$$

$$\sqrt{1-\operatorname{Sec}[c+d x]^2} \operatorname{Sin}[c+d x]-\frac{1}{a^2 b (b+a \operatorname{Cos}[c+d x]) \left(1-\operatorname{Cos}[c+d x]^2\right) \sqrt{\operatorname{Sec}[c+d x]} \left(2-\operatorname{Sec}[c+d x]^2\right)}$$

$$2 \left(-72 a^4 A b+195 a^2 A b^3-105 A b^5+24 a^5 B-87 a^3 b^2 B+45 a b^4 B\right) \operatorname{Cos}[2 (c+d x)] (a+b \operatorname{Sec}[c+d x])$$

$$\Big(2 a b-2 a b \operatorname{Sec}[c+d x]^2+2 a b \operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right] \sqrt{\operatorname{Sec}[c+d x]} \sqrt{1-\operatorname{Sec}[c+d x]^2}+$$

$$a (a-2 b) \operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right] \sqrt{\operatorname{Sec}[c+d x]} \sqrt{1-\operatorname{Sec}[c+d x]^2}+$$

$$a^2 \operatorname{EllipticPi}\left[-\frac{b}{a}, -\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right] \sqrt{\operatorname{Sec}[c+d x]} \sqrt{1-\operatorname{Sec}[c+d x]^2}-$$

$$2 b^2 \operatorname{EllipticPi}\left[-\frac{b}{a}, -\operatorname{ArcSin}\left[\sqrt{\operatorname{Sec}[c+d x]}\right], -1\right] \sqrt{\operatorname{Sec}[c+d x]} \sqrt{1-\operatorname{Sec}[c+d x]^2}\Big) \operatorname{Sin}[c+d x]\Bigg)+$$

$$\frac{1}{d} \sqrt{\operatorname{Sec}[c+d x]} \left(\frac{b^2 \left(-17 a^2 A b+11 A b^3+13 a^3 B-7 a b^2 B\right) \operatorname{Sin}[c+d x]}{4 a^4 \left(-a^2+b^2\right)^2}+\frac{A b^5 \operatorname{Sin}[c+d x]-a b^4 B \operatorname{Sin}[c+d x]}{2 a^4 \left(-a^2+b^2\right) (b+a \operatorname{Cos}[c+d x])^2}+\right.$$

$$\left.\frac{19 a^2 A b^4 \operatorname{Sin}[c+d x]-13 A b^6 \operatorname{Sin}[c+d x]-15 a^3 b^3 B \operatorname{Sin}[c+d x]+9 a b^5 B \operatorname{Sin}[c+d x]}{4 a^4 \left(-a^2+b^2\right)^2 (b+a \operatorname{Cos}[c+d x])}+\frac{A \operatorname{Sin}[2 (c+d x)]}{3 a^3}\right)$$

Incorrect antiderivative:

$$\left\{\operatorname{Sec}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]} (A+B \operatorname{Sec}[c+d x]), x, 11, 0\right\}$$

$$-\frac{(a+b) (4 A b+a B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{4 b d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{(4 A b+3 a B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{4 d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{\left(4 a A b-a^2 B+4 b^2 B\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2} (c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{4 b d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{(4 A b+a B) \sqrt{\operatorname{Sec}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{4 b d}+\frac{B \operatorname{Sec}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{2 d}$$

$$\frac{1}{16\,d\,\sqrt{\text{Sec}[c+d\,x]}}\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(-\frac{1}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\,2\left(-\frac{4\,a\,b\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(-4\,a\,A\,b+3\,a^2\,B-8\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,i\,(4\,A\,b+a\,B)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\right.\right.\right.$$

$$\left.\left.\left.\left.\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\Bigg)+\frac{4\,(2\,b\,B+(4\,A\,b+a\,B)\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{b}\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\,\left(30\,a\,A\,b+3\,a^2\,B+16\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{24\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(42\,a\,A\,b+17\,a^2\,B+16\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{24\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(6\,a^2\,A\,b+8\,A\,b^3-a^3\,B+12\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{8\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(30\,a\,A\,b+3\,a^2\,B+16\,b^2\,B\right)\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,b\,d}+$$

$$\frac{(6\,A\,b+7\,a\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,d}+\frac{b\,B\,\text{Sec}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$-\frac{1}{96\,b\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{2\left(-24\,a\,A\,b^2-28\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(-6\,a^2\,A\,b-48\,A\,b^3+9\,a^3\,B-56\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(30\,a^2\,A\,b+3\,a^3\,B+16\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\left((a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{1}{12}\,\mathrm{Sec}[c+d\,x]^2\,(6\,A\,b\,\mathrm{Sin}[c+d\,x]+7\,a\,B\,\mathrm{Sin}[c+d\,x])+\right.\right.$$

$$\frac{\mathrm{Sec}[c+d\,x]\,\left(30\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+3\,a^2\,B\,\mathrm{Sin}[c+d\,x]+16\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{24\,b}+$$

$$\left.\left.\frac{1}{3}\,b\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]\right)\right)\Big/\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,11,\,0\right\}$$

$$-\frac{(a+b)\,(4\,A\,b+5\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,a^2\,A+4\,A\,b^2+7\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(12\,a\,A\,b+3\,a^2\,B+4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,A\,b+5\,a\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d}+\frac{b\,B\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{16\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Sec}[c+d\,x]^{3/2}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{2\,\left(16\,a^2\,A+4\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\,\left(20\,a\,A\,b+a^2\,B+8\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\left(2\,i\,\left(-4\,a\,A\,b-5\,a^2\,B\right)\,\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\right.$$

$$\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\;\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\,\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(\frac{1}{4}\,\mathrm{Sec}[c+d\,x]\,(4\,A\,b\,\mathrm{Sin}[c+d\,x]+5\,a\,B\,\mathrm{Sin}[c+d\,x])+\frac{1}{2}\,b\,B\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\,(2\,a\,A-b\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a\,A\,b+2\,a^2\,B+b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(2\,A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{d}$$

$$\frac{1}{4\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}\,2\left(\frac{4\,a\,(2\,A\,b+a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(2\,a^2\,A+4\,A\,b^2+5\,a\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,i\,(2\,a\,A-b\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\;\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}\;\mathrm{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\left.\frac{4\,b\,B\,\mathrm{Tan}[c+d\,x]}{b+a\,\mathrm{Cos}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,10,\,0\right\}$$

$$\frac{2\,(a+b)\,(4\,A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(a^2\,A-A\,b^2+3\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^2\,B\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}\left(\frac{4\,\left(a^2\,A+3\,A\,b^2+6\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(4\,a\,A\,b+3\,a^2\,B+6\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,2\,i\,(4\,A\,b+3\,a\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}$$

$$\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\left.\frac{4\,a\,A\,\mathrm{Sin}[c+d\,x]}{b+a\,\mathrm{Cos}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,13,\,0\right\}$$

$$-\frac{(a+b)\left(264a^2Ab+128Ab^3+15a^3B+284ab^2B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{192bd\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\left(472a^2Ab+128Ab^3+133a^3B+356ab^2B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{192d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\left(40a^3Ab+160aAb^3-5a^4B+120a^2b^2B+48b^4B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{64bd\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\left(264a^2Ab+128Ab^3+15a^3B+284ab^2B\right)\sqrt{\mathrm{Sec}[c+dx]}\;\sqrt{a+b\,\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{192bd}+$$

$$\frac{\left(104aAb+59a^2B+36b^2B\right)\mathrm{Sec}[c+dx]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{96d}+$$

$$\frac{b(8Ab+11aB)\,\mathrm{Sec}[c+dx]^{5/2}\sqrt{a+b\,\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{24d}+\frac{bB\,\mathrm{Sec}[c+dx]^{5/2}(a+b\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{4d}$$

$$-\frac{1}{768\, b\, d\, (b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(-416\,a^2\,A\,b^2-236\,a^3\,b\,B-144\,a\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(24\,a^3\,A\,b-832\,a\,A\,b^3+45\,a^4\,B-436\,a^2\,b^2\,B-288\,b^4\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\left(264\,a^3\,A\,b+128\,a\,A\,b^3+15\,a^4\,B+284\,a^2\,b^2\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{5/2}}(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{1}{24}\mathrm{Sec}[c+d\,x]^3\left(8\,A\,b^2\,\mathrm{Sin}[c+d\,x]+17\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+\right.$$

$$\frac{1}{96}\mathrm{Sec}[c+d\,x]^2\left(104\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+59\,a^2\,B\,\mathrm{Sin}[c+d\,x]+36\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)+$$

$$\frac{\mathrm{Sec}[c+d\,x]\left(264\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+128\,A\,b^3\,\mathrm{Sin}[c+d\,x]+15\,a^3\,B\,\mathrm{Sin}[c+d\,x]+284\,a\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{192\,b}+$$

$$\left.\frac{1}{4}b^2\,B\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\left(54\,a\,A\,b+33\,a^2\,B+16\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^3\,A+66\,a\,A\,b^2+59\,a^2\,b\,B+16\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(30\,a^2\,A\,b+8\,A\,b^3+5\,a^3\,B+20\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(54\,a\,A\,b+33\,a^2\,B+16\,b^2\,B\right)\sqrt{\mathrm{Sec}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{24\,d}+$$

$$\frac{b\,(2\,A\,b+3\,a\,B)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,d}+\frac{b\,B\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{96\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(96\,a^3\,A+24\,a\,A\,b^2+52\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(126\,a^2\,A\,b+48\,A\,b^3-3\,a^3\,B+104\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\left(-54\,a^2\,A\,b-33\,a^3\,B-16\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left(\sqrt{\frac{1}{a-b}}\;b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\;\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\;\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{5/2}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{1}{12}\,\mathrm{Sec}[c+d\,x]^2\left(6\,A\,b^2\,\mathrm{Sin}[c+d\,x]+13\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+\right.$$

$$\left.\frac{1}{24}\,\mathrm{Sec}[c+d\,x]\left(54\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+33\,a^2\,B\,\mathrm{Sin}[c+d\,x]+16\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)+\frac{1}{3}\,b^2\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\sqrt{\text{Sec}[c+d\,x]}},\ x,\ 11,\ 0\right\}$$

$$\frac{(a+b)\,\left(8\,a^2\,A-4\,A\,b^2-9\,a\,b\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(16\,a^2\,A\,b+4\,A\,b^3+8\,a^3\,B+11\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{b\,\left(20\,a\,A\,b+15\,a^2\,B+4\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{b\,(4\,A\,b+7\,a\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{4\,d}+\frac{b\,B\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d}$$

$$\frac{1}{16\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Sec}[c+d\,x]^{5/2}}$$

$$(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{2\,\left(48\,a^2\,A\,b+16\,a^3\,B+4\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\,\left(8\,a^3\,A+36\,a\,A\,b^2+21\,a^2\,b\,B+8\,b^3\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(8\,a^3\,A-4\,a\,A\,b^2-9\,a^2\,b\,B\right)\sqrt{\frac{a-a\,\text{Cos}[c+d\,x]}{a+b}}\ \sqrt{\frac{a+a\,\text{Cos}[c+d\,x]}{a-b}}\ \text{Cos}[2\,(c+d\,x)]\right.$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]\right)\right)\text{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\ b\,\sqrt{1-\text{Cos}[c+d\,x]^2}\ \sqrt{\frac{a^2-a^2\,\text{Cos}[c+d\,x]^2}{a^2}}\ \left(-a^2+2\,b^2-4\,b\,(b+a\,\text{Cos}[c+d\,x])+2\,(b+a\,\text{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(\frac{1}{4}\,\text{Sec}[c+d\,x]\,\left(4\,A\,b^2\,\text{Sin}[c+d\,x]+9\,a\,b\,B\,\text{Sin}[c+d\,x]\right)+\frac{1}{2}\,b^2\,B\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Sec}[c+d\,x]^{5/2}}$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{3/2}},\ x,\ 11,\ 0\right\}$$

$$\frac{(a+b)\left(14\,a\,A\,b+6\,a^2\,B-3\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a^3\,A+4\,a\,A\,b^2+12\,a^2\,b\,B+3\,b^3\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{b^2\,(2\,A\,b+5\,a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{b\,(2\,a\,A-3\,b\,B)\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{3\,d}+\frac{2\,a\,A\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{12\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Sec}[c+d\,x]^{5/2}}$$

$$(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(4\,a^3\,A+36\,a\,A\,b^2+36\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(14\,a^2\,A\,b+12\,A\,b^3+6\,a^3\,B+27\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(14\,a^2\,A\,b+6\,a^3\,B-3\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\text{Cos}[c+d\,x]}{a+b}}\ \sqrt{\frac{a+a\,\text{Cos}[c+d\,x]}{a-b}}\right.$$

$$\text{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\ \text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\ \sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\ \frac{-a+b}{a+b}\right]\right)\right)\text{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\ b\,\sqrt{1-\text{Cos}[c+d\,x]^2}\ \sqrt{\frac{a^2-a^2\,\text{Cos}[c+d\,x]^2}{a^2}}\ \left(-a^2+2\,b^2-4\,b\,(b+a\,\text{Cos}[c+d\,x])+2\,(b+a\,\text{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(\frac{2}{3}\,a^2\,A\,\text{Sin}[c+d\,x]+b^2\,B\,\text{Tan}[c+d\,x]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Sec}[c+d\,x]^{5/2}}$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{\text{Sec}[c+d\,x]^{5/2}},\ x,\ 11,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(9\,a^2\,A+23\,A\,b^2+35\,a\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(8\,a^2\,A\,b-8\,A\,b^3+5\,a^3\,B+10\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\,B\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(8\,A\,b+5\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{15\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\,\left(34\,a^2\,A\,b+30\,A\,b^3+10\,a^3\,B+90\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\,\left(9\,a^3\,A+23\,a\,A\,b^2+35\,a^2\,b\,B+30\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(9\,a^3\,A+23\,a\,A\,b^2+35\,a^2\,b\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\;b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2}{15}\,a\,(11\,A\,b+5\,a\,B)\,\mathrm{Sin}[c+d\,x]+\frac{1}{5}\,a^2\,A\,\mathrm{Sin}[2\,(c+d\,x)]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\,x,\,11,\,0\right\}$$

$$-\frac{(a+b)\,(4\,A\,b-3\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,A\,b-a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{\left(4\,a\,A\,b-3\,a^2\,B-4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,A\,b-3\,a\,B)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,d}+\frac{B\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,b\,d}$$

$$\frac{1}{16\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(\frac{1}{b^2}\,2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(\frac{4\,a\,b\,B\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(-12\,a\,A\,b+9\,a^2\,B+8\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,i\,(-4\,A\,b+3\,a\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}$$

$$\mathrm{Csc}[c+d\,x]\,\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\,\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+$$

$$\left.\frac{4\,(b+a\,\mathrm{Cos}[c+d\,x])\,(2\,b\,B+(4\,A\,b-3\,a\,B)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{b^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,11,\,0\right\}$$

$$\frac{\left(2 a A b-3 a^2 B+b^2 B\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{(a-b) b^2 d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{B \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{b d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{(2 A b-3 a B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2}(c+d x), \frac{2 a}{a+b}\right] \sqrt{\operatorname{Sec}[c+d x]}}{b^2 d \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{2 a (A b-a B) \operatorname{Sec}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{b\left(a^2-b^2\right) d \sqrt{a+b \operatorname{Sec}[c+d x]}}-\frac{\left(2 a A b-3 a^2 B+b^2 B\right) \sqrt{\operatorname{Sec}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{b^2\left(a^2-b^2\right) d}$$

$$\frac{1}{4 d (a+b \operatorname{Sec}[c+d x])^{3/2}}$$

$$\operatorname{Sec}[c+d x]^{3/2}\left(-\frac{1}{(a-b) b^2 (a+b)}(b+a \operatorname{Cos}[c+d x])^{3/2}\left(\frac{8 a b (-A b+a B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{\sqrt{b+a \operatorname{Cos}[c+d x]}}+\right.\right.$$

$$\frac{2\left(-6 a^2 A b+4 A b^3+9 a^3 B-7 a b^2 B\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{\sqrt{b+a \operatorname{Cos}[c+d x]}}+$$

$$\frac{1}{a \sqrt{\frac{1}{a-b}}\, b} 2 i\left(-2 a A b+3 a^2 B-b^2 B\right) \sqrt{-\frac{a(-1+\operatorname{Cos}[c+d x])}{a+b}} \sqrt{\frac{a(1+\operatorname{Cos}[c+d x])}{a-b}}$$

$$\operatorname{Csc}[c+d x]\left(-2 b (a+b) \operatorname{EllipticE}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a-b}} \sqrt{b+a \operatorname{Cos}[c+d x]}\right], \frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2 b \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a-b}} \sqrt{b+a \operatorname{Cos}[c+d x]}\right], \frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.\left.a \operatorname{EllipticPi}\left[1-\frac{a}{b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a-b}} \sqrt{b+a \operatorname{Cos}[c+d x]}\right], \frac{-a+b}{a+b}\right]\right)\right)\right)+$$

$$\left.\frac{4 (b+a \operatorname{Cos}[c+d x])\left(b\left(-a^2+b^2\right) B+a\left(2 a A b-3 a^2 B+b^2 B\right) \operatorname{Cos}[c+d x]\right) \operatorname{Tan}[c+d x]}{-a^2 b^2+b^4}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]^{3/2}(A+B \operatorname{Sec}[c+d x])}{(a+b \operatorname{Sec}[c+d x])^{3/2}}, x, 8, 0\right\}$$

$$-\frac{2\,(A\,b-a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{(a-b)\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,(A\,b-a\,B)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\text{Sec}[c+d\,x]^{3/2}\left(\frac{1}{(-a+b)\,(a+b)}\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(\frac{4\,b\,(A\,b-a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(a\,A\,b-3\,a^2\,B+2\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,2\,i\,(-A\,b+a\,B)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\;\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\text{EllipticPi}\left[1-\frac{a}{b},\right.\right.$$

$$\left.\left.\left.\left.i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a\,(A\,b-a\,B)\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{a^2-b^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,11,\,0\right\}$$

$$\frac{2\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,(a-b)^2\,b^2\,(a+b)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b-a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{3\,b\,\left(a^2-b^2\right)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\text{Sec}[c+d\,x]}}{b^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(A\,b-a\,B)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}-\frac{2\,a\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,b^2\,\left(a^2-b^2\right)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$\left(\frac{1}{(a-b)^2\,b^2\,(a+b)^2}\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\left(\frac{4\,b\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(4\,a\,A\,b^3+9\,a^4\,B-19\,a^2\,b^2\,B+6\,b^4\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}$$

$$\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)-$$

$$\left.\frac{4\,a\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(b\,\left(-a^2\,A\,b+5\,A\,b^3+4\,a^3\,B-8\,a\,b^2\,B\right)+a\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\mathrm{Cos}[c+d\,x]\right)\mathrm{Sin}[c+d\,x]}{\left(-a^2\,b+b^3\right)^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{a+b\,\mathrm{Sec}[c+d\,x]},\,x,\,8,\,0\right\}$$

$$\frac{2\,\left(3\,a^2\,A+5\,A\,b^2-5\,a\,b\,B\right)\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^3\,d}-\frac{2\,\left(a^2\,A\,b+3\,A\,b^3-a^3\,B-3\,a\,b^2\,B\right)\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^4\,d}+$$

$$\frac{2\,b^3\,(A\,b-a\,B)\,\mathrm{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a^4\,(a+b)\,d}-\frac{2\,(A\,b-a\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,a\,d}$$

$$\frac{1}{30 a^2 d}\left(\frac{2\left(9 a^2 A+5 A b^2-5 a b B\right) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a+b}+\frac{4(4 A b+5 a B)\left((a+b) \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]-b \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]\right)}{a+b}+4 \sqrt{\text{Cos}[c+d x]}(-5 A b+5 a B+3 a A \text{Cos}[c+d x]) \text{Sin}[c+d x]-\frac{1}{a^2 b \sqrt{\text{Sin}[c+d x]^2}} 6\left(3 a^2 A+5 A b^2-5 a b B\right)\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-2 b(a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]+\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b}, -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]\right) \text{Sin}[c+d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^{3/2}(A+B \text{Sec}[c+d x])}{a+b \text{Sec}[c+d x]}, x, 7, 0\right\}$$

$$-\frac{2(A b-a B) \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{a^2 d}+\frac{2\left(a^2 A+3 A b^2-3 a b B\right) \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{3 a^3 d}-\frac{2 b^2(A b-a B) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a^3(a+b) d}+\frac{2 A \sqrt{\text{Cos}[c+d x]} \text{Sin}[c+d x]}{3 a d}$$

$$\frac{1}{6 a d}\left(\frac{2(-A b+3 a B) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a+b}+4 A\left(\text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]-\frac{b \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a+b}\right)+4 A \sqrt{\text{Cos}[c+d x]} \text{Sin}[c+d x]-\frac{1}{a^2 b \sqrt{\text{Sin}[c+d x]^2}} 6(A b-a B)\left(-2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]+2 b(a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b}, -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]\right) \text{Sin}[c+d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d x]}(A+B \text{Sec}[c+d x])}{a+b \text{Sec}[c+d x]}, x, 6, 0\right\}$$

$$\frac{2 A \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{a d}-\frac{2(A b-a B) \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{a^2 d}+\frac{2 b(A b-a B) \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a^2(a+b) d}$$

$$\frac{1}{a^2 d}\left(a B\left(2 \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]-\frac{2 b \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right]}{a+b}\right)-\frac{1}{\sqrt{\text{Sin}[c+d x]^2}} 2 A\left(a \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-(a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]-b \text{EllipticPi}\left[-\frac{a}{b}, -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right], -1\right]\right) \text{Sin}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,B\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,d}+\frac{2\,(A\,b-a\,B)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,(a+b)\,d}+\frac{2\,B\,\text{Sin}[c+d\,x]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d}\left(\frac{2\,(2\,A\,b-3\,a\,B)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}-\right.$$

$$\frac{2\,b\,B\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\frac{1}{2}\,(c+d\,x),2\right]}{a+b}\right)}{a}+\frac{4\,B\,\text{Sin}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,B\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\right.$$

$$\left.\left.\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])},\ x,\ 9,\ 0\right\}$$

$$\frac{2\left(5\,a\,A\,b-5\,a^2\,B-3\,b^2\,B\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,b^3\,d}+$$

$$\frac{2\,(A\,b-a\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,b^2\,d}+\frac{2\,a^2\,(A\,b-a\,B)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{b^3\,(a+b)\,d}+$$

$$\frac{2\,B\,\text{Sin}[c+d\,x]}{5\,b\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{2\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{3\,b^2\,d\,\text{Cos}[c+d\,x]^{3/2}}-\frac{2\left(5\,a\,A\,b-5\,a^2\,B-3\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{5\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{30\,b^3\,d}\left(\frac{2\left(45\,a^2\,A\,b+10\,A\,b^3-45\,a^3\,B-19\,a\,b^2\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}-\right.$$

$$\frac{2\,b\left(-20\,a\,A\,b+20\,a^2\,B+9\,b^2\,B\right)\left(2\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-\frac{2\,b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\frac{1}{2}\,(c+d\,x),2\right]}{a+b}\right)}{a}+$$

$$\frac{4\left(3\left(-5\,a\,A\,b+5\,a^2\,B+3\,b^2\,B\right)+5\,b\,(A\,b-a\,B)\,\text{Sec}[c+d\,x]+3\,b^2\,B\,\text{Sec}[c+d\,x]^2\right)\,\text{Sin}[c+d\,x]}{\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,6\left(-5\,a\,A\,b+5\,a^2\,B+3\,b^2\,B\right)\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\right.$$

$$\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 9,\ 0\right\}$$

$$\frac{\left(6\,a^4\,A+24\,a^2\,A\,b^2-35\,A\,b^4-20\,a^3\,b\,B+25\,a\,b^3\,B\right)\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,a^4\,\left(a^2-b^2\right)\,d}-$$

$$\frac{\left(4\,a^4\,A\,b+20\,a^2\,A\,b^3-21\,A\,b^5-2\,a^5\,B-16\,a^3\,b^2\,B+15\,a\,b^4\,B\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^5\,\left(a^2-b^2\right)\,d}+$$

$$\frac{b^3\,\left(9\,a^2\,A\,b-7\,A\,b^3-7\,a^3\,B+5\,a\,b^2\,B\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^5\,(a-b)\,(a+b)^2\,d}-$$

$$\frac{\left(4\,a^2\,A\,b-7\,A\,b^3-2\,a^3\,B+5\,a\,b^2\,B\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^3\,\left(a^2-b^2\right)\,d}+$$

$$\frac{\left(2\,a^2\,A-7\,A\,b^2+5\,a\,b\,B\right)\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a^2\,\left(a^2-b^2\right)\,d}+\frac{b\,(A\,b-a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{60\,a^3\,d}\left(\frac{1}{(a-b)\,(a+b)}\left(\frac{2\,\left(18\,a^4\,A+32\,a^2\,A\,b^2-35\,A\,b^4-40\,a^3\,b\,B+25\,a\,b^3\,B\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+\right.\right.$$

$$\frac{8\,\left(-a^2\,A\,b-14\,A\,b^3+5\,a^3\,B+10\,a\,b^2\,B\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\right)}{a+b}-$$

$$\frac{1}{a^2\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,6\,\left(6\,a^4\,A+24\,a^2\,A\,b^2-35\,A\,b^4-20\,a^3\,b\,B+25\,a\,b^3\,B\right)$$

$$\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\right.$$

$$\left.\left.\left(a^2-2\,b^2\right)\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\text{Sin}[c+d\,x]\right)+$$

$$\left.4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(10\,(-2\,A\,b+a\,B)\,\text{Sin}[c+d\,x]+\frac{15\,b^3\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)\,(b+a\,\text{Cos}[c+d\,x])}+3\,a\,A\,\text{Sin}[2\,(c+d\,x)]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 8,\ 0\right\}$$

$$-\frac{\left(4\,a^2\,A\,b-5\,A\,b^3-2\,a^3\,B+3\,a\,b^2\,B\right)\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^3\,\left(a^2-b^2\right)\,d}+$$

$$\frac{\left(2\,a^4\,A+16\,a^2\,A\,b^2-15\,A\,b^4-12\,a^3\,b\,B+9\,a\,b^3\,B\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^4\,\left(a^2-b^2\right)\,d}-$$

$$\frac{b^2\,\left(7\,a^2\,A\,b-5\,A\,b^3-5\,a^3\,B+3\,a\,b^2\,B\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^4\,(a-b)\,(a+b)^2\,d}+$$

$$\frac{\left(2\,a^2\,A-5\,A\,b^2+3\,a\,b\,B\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,\left(a^2-b^2\right)\,d}+\frac{b\,(A\,b-a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{12 a^2 d}\left(4\sqrt{\text{Cos}[c+d x]}\left(2 A+\frac{3 b^2 (A b-a B)}{\left(-a^2+b^2\right)(b+a \text{Cos}[c+d x])}\right)\text{Sin}[c+d x]-\right.$$

$$\frac{1}{(-a+b)(a+b)}\left(\frac{2\left(-8 a^2 A b+5 A b^3+6 a^3 B-3 a b^2 B\right)\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$

$$\frac{8\left(a^2 A+2 A b^2-3 a b B\right)\left((a+b)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$

$$\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}6\left(-4 a^2 A b+5 A b^3+2 a^3 B-3 a b^2 B\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d x]}\,(A+B\,\text{Sec}[c+d x])}{(a+b\,\text{Sec}[c+d x])^2},x,7,0\right\}$$

$$\frac{\left(2 a^2 A-3 A b^2+a b B\right)\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right)d}-\frac{\left(4 a^2 A b-3 A b^3-2 a^3 B+a b^2 B\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^3\left(a^2-b^2\right)d}+$$

$$\frac{b\left(5 a^2 A b-3 A b^3-3 a^3 B+a b^2 B\right)\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^3(a-b)(a+b)^2 d}+\frac{b(A b-a B)\,\text{Sin}[c+d x]}{a\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{4 a d}\left(\frac{4 b(A b-a B)\sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{\left(a^2-b^2\right)(b+a\,\text{Cos}[c+d x])}+\frac{1}{(a-b)(a+b)}\left(\frac{2\left(2 a^2 A-A b^2-a b B\right)\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.\right.$$

$$\frac{8(-A b+a B)\left((a+b)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$

$$\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}2\left(2 a^2 A-3 A b^2+a b B\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]}{\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2},x,7,0\right\}$$

$$\frac{(A b-a B)\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a\left(a^2-b^2\right)d}+\frac{\left(2 a^2 A-A b^2-a b B\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right)d}-$$

$$\frac{\left(3 a^2 A b-A b^3-a^3 B-a b^2 B\right)\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^2(a-b)(a+b)^2 d}-\frac{(A b-a B)\,\text{Sin}[c+d x]}{\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{4d}\left(\frac{4(-Ab+aB)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{(a^2-b^2)(b+a\,\text{Cos}[c+dx])}-\frac{1}{(-a+b)(a+b)}\right.$$

$$\left(\frac{2(-Ab+aB)\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a+b}+\frac{(4aA-4bB)\left(2\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]-\frac{2b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a+b}\right)}{a}+\right.$$

$$\frac{1}{a^2b\sqrt{\text{Sin}[c+dx]^2}}2(Ab-aB)\left(-2ab\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]+2b(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]-(a^2-2b^2)\,\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]\right)\text{Sin}[c+dx]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+dx]}{\text{Cos}[c+dx]^{3/2}(a+b\,\text{Sec}[c+dx])^2},x,7,0\right\}$$

$$-\frac{(Ab-aB)\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{b(a^2-b^2)d}-\frac{(Ab-aB)\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{a(a^2-b^2)d}+$$

$$\frac{(a^2Ab+Ab^3+a^3B-3ab^2B)\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a(a-b)b(a+b)^2d}+\frac{a(Ab-aB)\,\text{Sin}[c+dx]}{b(a^2-b^2)d\sqrt{\text{Cos}[c+dx]}(a+b\,\text{Sec}[c+dx])}$$

$$\frac{1}{4bd}\left(-\frac{4a(-Ab+aB)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{(a^2-b^2)(b+a\,\text{Cos}[c+dx])}+\frac{1}{(a-b)(a+b)}\left(\frac{2(aAb+3a^2B-4b^2B)\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a+b}+\right.\right.$$

$$\frac{4b(-Ab+aB)\left(2\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]-\frac{2b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a+b}\right)}{a}-\frac{1}{ab\sqrt{\text{Sin}[c+dx]^2}}$$

$$2(Ab-aB)\left(-2ab\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]+2b(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]-\right.$$

$$\left.\left.\left.(a^2-2b^2)\,\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+dx]}\right],-1\right]\right)\text{Sin}[c+dx]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+dx]}{\text{Cos}[c+dx]^{5/2}(a+b\,\text{Sec}[c+dx])^2},x,8,0\right\}$$

$$\frac{\left(a A b-3 a^2 B+2 b^2 B\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{b^2\left(a^2-b^2\right) d}+\frac{(A b-a B) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{b\left(a^2-b^2\right) d}+$$
$$\frac{\left(a^2 A b-3 A b^3-3 a^3 B+5 a b^2 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{(a-b) b^2 (a+b)^2 d}-$$
$$\frac{\left(a A b-3 a^2 B+2 b^2 B\right) \text{Sin}[c+d x]}{b^2\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}}+\frac{a (A b-a B) \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d \text{Cos}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])}$$
$$\frac{1}{4 b^2 d}\left(-\frac{1}{(a-b)(a+b)}\left(\frac{2\left(-3 a^2 A b+4 A b^3+9 a^3 B-10 a b^2 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}-\right.\right.$$
$$\frac{8 b\left(a A b-2 a^2 B+b^2 B\right)\left((a+b) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a(a+b)}-$$
$$\frac{1}{a b \sqrt{\text{Sin}[c+d x]^2}} 2\left(-a A b+3 a^2 B-2 b^2 B\right)\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b) \text{EllipticF}\left[\right.\right.$$
$$\left.\left.\left.\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right) \text{Sin}[c+d x]\right)+$$
$$\left.4 \sqrt{\text{Cos}[c+d x]}\left(\frac{a^2(-A b+a B) \text{Sin}[c+d x]}{\left(a^2-b^2\right)(b+a \text{Cos}[c+d x])}+2 B \text{Tan}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \text{Sec}[c+d x]}{\text{Cos}[c+d x]^{7/2}(a+b \text{Sec}[c+d x])^2}, x, 9, 0\right\}$$
$$-\frac{\left(3 a^2 A b-2 A b^3-5 a^3 B+4 a b^2 B\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{b^3\left(a^2-b^2\right) d}-\frac{\left(3 a A b-5 a^2 B+2 b^2 B\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{3 b^2\left(a^2-b^2\right) d}-$$
$$\frac{a\left(3 a^2 A b-5 A b^3-5 a^3 B+7 a b^2 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{(a-b) b^3 (a+b)^2 d}-\frac{\left(3 a A b-5 a^2 B+2 b^2 B\right) \text{Sin}[c+d x]}{3 b^2\left(a^2-b^2\right) d \text{Cos}[c+d x]^{3/2}}+$$
$$\frac{\left(3 a^2 A b-2 A b^3-5 a^3 B+4 a b^2 B\right) \text{Sin}[c+d x]}{b^3\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}}+\frac{a (A b-a B) \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d \text{Cos}[c+d x]^{5/2}(a+b \text{Sec}[c+d x])}$$
$$\frac{1}{12 b^3 d}\left(\frac{1}{(a-b)(a+b)}\left(\frac{2\left(-27 a^3 A b+30 a A b^3+45 a^4 B-44 a^2 b^2 B-4 b^4 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.\right.$$
$$\frac{8 b\left(-6 a^2 A b+3 A b^3+10 a^3 B-7 a b^2 B\right)\left((a+b) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a(a+b)}-$$
$$\frac{1}{a b \sqrt{\text{Sin}[c+d x]^2}} 6\left(-3 a^2 A b+2 A b^3+5 a^3 B-4 a b^2 B\right)$$
$$\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\right.$$
$$\left.\left.\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right) \text{Sin}[c+d x]\right)+$$
$$\left.4 \sqrt{\text{Cos}[c+d x]}\left(-\frac{3 a^3(-A b+a B) \text{Sin}[c+d x]}{\left(a^2-b^2\right)(b+a \text{Cos}[c+d x])}+2(3 A b-6 a B+b B \text{Sec}[c+d x]) \text{Tan}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 10,\ 0\right\}$$

$$\frac{\left(24\,a^6\,A+192\,a^4\,A\,b^2-561\,a^2\,A\,b^4+315\,A\,b^6-120\,a^5\,b\,B+325\,a^3\,b^3\,B-175\,a\,b^5\,B\right)\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{20\,a^5\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{\left(24\,a^6\,A\,b+192\,a^4\,A\,b^3-387\,a^2\,A\,b^5+189\,A\,b^7-8\,a^7\,B-128\,a^5\,b^2\,B+223\,a^3\,b^4\,B-105\,a\,b^6\,B\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{12\,a^6\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{b^3\,\left(99\,a^4\,A\,b-150\,a^2\,A\,b^3+63\,A\,b^5-63\,a^5\,B+86\,a^3\,b^2\,B-35\,a\,b^4\,B\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{4\,a^6\,(a-b)^2\,(a+b)^3\,d}-$$

$$\frac{\left(24\,a^4\,A\,b-105\,a^2\,A\,b^3+63\,A\,b^5-8\,a^5\,B+61\,a^3\,b^2\,B-35\,a\,b^4\,B\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,a^4\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(8\,a^4\,A-101\,a^2\,A\,b^2+63\,A\,b^4+65\,a^3\,b\,B-35\,a\,b^3\,B\right)\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{20\,a^3\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{b\,(A\,b-a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{2\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{b\,\left(15\,a^2\,A\,b-9\,A\,b^3-11\,a^3\,B+5\,a\,b^2\,B\right)\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{4\,a^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{240\,a^4\,d}\left(\frac{1}{(a-b)^2\,(a+b)^2}\right.$$

$$\left(\frac{2\,\left(72\,a^6\,A+336\,a^4\,A\,b^2-633\,a^2\,A\,b^4+315\,A\,b^6-280\,a^5\,b\,B+365\,a^3\,b^3\,B-175\,a\,b^5\,B\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a+b}+\right.$$

$$\frac{1}{a+b}16\,\left(-12\,a^4\,A\,b-96\,a^2\,A\,b^3+63\,A\,b^5+10\,a^5\,B+70\,a^3\,b^2\,B-35\,a\,b^4\,B\right)$$

$$\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]\right)-$$

$$\frac{1}{a^2\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,6\,\left(24\,a^6\,A+192\,a^4\,A\,b^2-561\,a^2\,A\,b^4+315\,A\,b^6-120\,a^5\,b\,B+325\,a^3\,b^3\,B-175\,a\,b^5\,B\right)$$

$$\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]+\right.$$

$$\left.\left.\left(a^2-2\,b^2\right)\text{EllipticPi}\left[-\frac{a}{b},\,-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\,-1\right]\right)\text{Sin}[c+d\,x]\right)+$$

$$4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(40\,(-3\,A\,b+a\,B)\,\text{Sin}[c+d\,x]+\frac{30\,b^4\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])^2}-\right.$$

$$\left.\left.\frac{15\,b^3\,\left(-21\,a^2\,A\,b+15\,A\,b^3+17\,a^3\,B-11\,a\,b^2\,B\right)\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])}+12\,a\,A\,\text{Sin}[2\,(c+d\,x)]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\,(A+B\,\text{Sec}[c+d\,x])}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 9,\ 0\right\}$$

$$-\frac{\left(24 a^4 A b-65 a^2 A b^3+35 A b^5-8 a^5 B+29 a^3 b^2 B-15 a b^4 B\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a^4 \left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(8 a^6 A+128 a^4 A b^2-223 a^2 A b^4+105 A b^6-72 a^5 b B+99 a^3 b^3 B-45 a b^5 B\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{12 a^5 \left(a^2-b^2\right)^2 d}-$$

$$\frac{b^2 \left(63 a^4 A b-86 a^2 A b^3+35 A b^5-35 a^5 B+38 a^3 b^2 B-15 a b^4 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^5 (a-b)^2 (a+b)^3 d}+$$

$$\frac{\left(8 a^4 A-61 a^2 A b^2+35 A b^4+33 a^3 b B-15 a b^3 B\right) \sqrt{\text{Cos}[c+d x]}\, \text{Sin}[c+d x]}{12 a^3 \left(a^2-b^2\right)^2 d}+$$

$$\frac{b (A b-a B) \sqrt{\text{Cos}[c+d x]}\, \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{b \left(13 a^2 A b-7 A b^3-9 a^3 B+3 a b^2 B\right) \sqrt{\text{Cos}[c+d x]}\, \text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{48 a^3 d}\left(\frac{1}{\left(a^2-b^2\right)^2 (b+a \text{Cos}[c+d x])^2} 4 \sqrt{\text{Cos}[c+d x]}\, \left(4 a^6 A-57 a^2 A b^4+35 A b^6+33 a^3 b^3 B-15 a b^5 B+\right.\right.$$

$$\left. a b \left(16 a^4 A-83 a^2 A b^2+49 A b^4+39 a^3 b B-21 a b^3 B\right) \text{Cos}[c+d x]+4 A \left(a^3-a b^2\right)^2 \text{Cos}[2 (c+d x)]\right) \text{Sin}[c+d x]+$$

$$\frac{1}{(a-b)^2 (a+b)^2}\left(\frac{2 \left(-56 a^4 A b+73 a^2 A b^3-35 A b^5+24 a^5 B-21 a^3 b^2 B+15 a b^4 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$

$$\frac{16 \left(2 a^4 A+14 a^2 A b^2-7 A b^4-12 a^3 b B+3 a b^3 B\right) \left((a+b) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$

$$\frac{1}{a^2 b \sqrt{\text{Sin}[c+d x]^2}} 6 \left(-24 a^4 A b+65 a^2 A b^3-35 A b^5+8 a^5 B-29 a^3 b^2 B+15 a b^4 B\right)$$

$$\left(2 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b (a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\right.$$

$$\left.\left.\left.\left(a^2-2 b^2\right) \text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right) \text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d x]}\, (A+B \text{Sec}[c+d x])}{(a+b \text{Sec}[c+d x])^3}, x, 8, 0\right\}$$

$$\frac{\left(8 a^4 A-29 a^2 A b^2+15 A b^4+9 a^3 b B-3 a b^3 B\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(24 a^4 A b-33 a^2 A b^3+15 A b^5-8 a^5 B+5 a^3 b^2 B-3 a b^4 B\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a^4 \left(a^2-b^2\right)^2 d}+$$

$$\frac{b \left(35 a^4 A b-38 a^2 A b^3+15 A b^5-15 a^5 B+6 a^3 b^2 B-3 a b^4 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^4 (a-b)^2 (a+b)^3 d}+$$

$$\frac{b (A b-a B) \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}\, (a+b \text{Sec}[c+d x])^2}+\frac{b \left(11 a^2 A b-5 A b^3-7 a^3 B+a b^2 B\right) \text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]}\, (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{16 a^2 d}\left(-\frac{4 b \sqrt{\text{Cos}[c+d x]}\left(b\left(-11 a^2 A b+5 A b^3+7 a^3 B-a b^2 B\right)+a\left(-13 a^2 A b+7 A b^3+9 a^3 B-3 a b^2 B\right)\text{Cos}[c+d x]\right)\text{Sin}[c+d x]}{\left(a^2-b^2\right)^2(b+a\,\text{Cos}[c+d x])^2}+\right.$$

$$\frac{1}{(a-b)^2(a+b)^2}\left(\frac{2\left(8 a^4 A-7 a^2 A b^2+5 A b^4-5 a^3 b B-a b^3 B\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$

$$\frac{16\left(-4 a^2 A b+A b^3+2 a^3 B+a b^2 B\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}-$$

$$\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}2\left(8 a^4 A-29 a^2 A b^2+15 A b^4+9 a^3 b B-3 a b^3 B\right)$$

$$\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\right.$$

$$\left.\left.\left.\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]}{\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3},x,8,0\right\}$$

$$\frac{\left(9 a^2 A b-3 A b^3-5 a^3 B-a b^2 B\right)\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a^2\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(8 a^4 A-5 a^2 A b^2+3 A b^4-7 a^3 b B+a b^3 B\right)\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(15 a^4 A b-6 a^2 A b^3+3 A b^5-3 a^5 B-10 a^3 b^2 B+a b^4 B\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^3(a-b)^2(a+b)^3 d}-$$

$$\frac{(A b-a B)\,\text{Sin}[c+d x]}{2\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2}-\frac{\left(7 a^2 A b-A b^3-3 a^3 B-3 a b^2 B\right)\text{Sin}[c+d x]}{4 a\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{8 a d}\left(\frac{2\sqrt{\text{Cos}[c+d x]}\left(b\left(-7 a^2 A b+A b^3+3 a^3 B+3 a b^2 B\right)+a\left(-9 a^2 A b+3 A b^3+5 a^3 B+a b^2 B\right)\text{Cos}[c+d x]\right)\text{Sin}[c+d x]}{\left(a^2-b^2\right)^2(b+a\,\text{Cos}[c+d x])^2}+\right.$$

$$\frac{1}{(a-b)^2(a+b)^2}\left(\frac{\left(-5 a^2 A b-A b^3+a^3 B+5 a b^2 B\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$

$$\frac{8\left(2 a^2 A+A b^2-3 a b B\right)\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-b\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+d x),2\right]\right)}{a+b}+$$

$$\frac{1}{a^2 b\sqrt{\text{Sin}[c+d x]^2}}\left(-9 a^2 A b+3 A b^3+5 a^3 B+a b^2 B\right)\left(2 a b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2 b(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+\left(a^2-2 b^2\right)\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right)\text{Sin}[c+d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$-\frac{\left(5\,a^2\,A\,b+A\,b^3-a^3\,B-5\,a\,b^2\,B\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,a\,b\,\left(a^2-b^2\right)^2\,d}-\frac{\left(7\,a^2\,A\,b-A\,b^3-3\,a^3\,B-3\,a\,b^2\,B\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,a^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^4\,A\,b+10\,a^2\,A\,b^3-A\,b^5+a^5\,B-10\,a^3\,b^2\,B-3\,a\,b^4\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,a^2\,(a-b)^2\,b\,(a+b)^3\,d}+$$

$$\frac{a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B-7\,a\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{4\,b\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16\,b\,d}\left(\frac{4\,\sqrt{\text{Cos}[c+d\,x]}\,\left(b\,\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B-7\,a\,b^2\,B\right)-a\,\left(-5\,a^2\,A\,b-A\,b^3+a^3\,B+5\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\right)\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])^2}+\right.$$

$$\frac{1}{(a-b)^2\,(a+b)^2}\left(\frac{2\,\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+\right.$$

$$\frac{16\,b\,\left(-3\,a\,A\,b+a^2\,B+2\,b^2\,B\right)\,\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\right)}{a\,(a+b)}-$$

$$\frac{1}{a^2\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,\left(-5\,a^2\,A\,b-A\,b^3+a^3\,B+5\,a\,b^2\,B\right)\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^2\,\left(a^2-b^2\right)^2\,d}+\frac{\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B-7\,a\,b^2\,B\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,a\,b\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^4\,A\,b-10\,a^2\,A\,b^3-3\,A\,b^5+3\,a^5\,B-6\,a^3\,b^2\,B+15\,a\,b^4\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,a\,(a-b)^2\,b^2\,(a+b)^3\,d}+$$

$$\frac{a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2}-\frac{a\,\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16\,b^2\,d}\left(-\frac{4\,a\,\sqrt{\text{Cos}[c+d\,x]}\,\left(b\,\left(-a^2\,A\,b+7\,A\,b^3+5\,a^3\,B-11\,a\,b^2\,B\right)+a\,\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\right)\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])^2}+\right.$$

$$\frac{1}{(a-b)^2\,(a+b)^2}\left(\frac{2\,\left(3\,a^3\,A\,b-9\,a\,A\,b^3+9\,a^4\,B-19\,a^2\,b^2\,B+16\,b^4\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+\right.$$

$$\frac{16\,b\,\left(a^2\,A\,b+2\,A\,b^3+a^3\,B-4\,a\,b^2\,B\right)\,\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\right)}{a\,(a+b)}-$$

$$\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,\left(a^2\,A\,b+5\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B\right)\,\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\right.$$

$$\left.\left.\left.\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 9,\ 0\right\}$$

$$\frac{\left(3\,a^3\,A\,b-9\,a\,A\,b^3-15\,a^4\,B+29\,a^2\,b^2\,B-8\,b^4\,B\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^3\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(a^2\,A\,b-7\,A\,b^3-5\,a^3\,B+11\,a\,b^2\,B\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,b^2\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^4\,A\,b-6\,a^2\,A\,b^3+15\,A\,b^5-15\,a^5\,B+38\,a^3\,b^2\,B-35\,a\,b^4\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{4\,(a-b)^2\,b^3\,(a+b)^3\,d}-$$

$$\frac{\left(3\,a^3\,A\,b-9\,a\,A\,b^3-15\,a^4\,B+29\,a^2\,b^2\,B-8\,b^4\,B\right)\,\text{Sin}[c+d\,x]}{4\,b^3\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{a\,\left(a^2\,A\,b-7\,A\,b^3-5\,a^3\,B+11\,a\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{16\,b^3\,d}\left(-\frac{1}{(a-b)^2\,(a+b)^2}\left(\frac{2\,\left(-9\,a^4\,A\,b+19\,a^2\,A\,b^3-16\,A\,b^5+45\,a^5\,B-95\,a^3\,b^2\,B+56\,a\,b^4\,B\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a+b}+\right.\right.$$

$$\frac{16\,b\,\left(-a^3\,A\,b+4\,a\,A\,b^3+5\,a^4\,B-10\,a^2\,b^2\,B+2\,b^4\,B\right)\,\left((a+b)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]-b\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\right)}{a\,(a+b)}$$

$$-\frac{1}{a\,b\,\sqrt{\text{Sin}[c+d\,x]^2}}\,2\,\left(-3\,a^3\,A\,b+9\,a\,A\,b^3+15\,a^4\,B-29\,a^2\,b^2\,B+8\,b^4\,B\right)$$

$$\left(2\,a\,b\,\text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]-2\,b\,(a+b)\,\text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]+\right.$$

$$\left.\left.\left(a^2-2\,b^2\right)\,\text{EllipticPi}\left[-\frac{a}{b},\ -\text{ArcSin}\left[\sqrt{\text{Cos}[c+d\,x]}\right],\ -1\right]\right)\,\text{Sin}[c+d\,x]\right)+$$

$$\frac{1}{\left(a^2-b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])^2}\,2\,\sqrt{\text{Cos}[c+d\,x]}\,\left(2\,a\,b\,\left(-5\,a^3\,A\,b+11\,a\,A\,b^3+25\,a^4\,B-47\,a^2\,b^2\,B+16\,b^4\,B\right)\,\text{Sin}[c+d\,x]+\right.$$

$$\left.a^2\,\left(-3\,a^3\,A\,b+9\,a\,A\,b^3+15\,a^4\,B-29\,a^2\,b^2\,B+8\,b^4\,B\right)\,\text{Sin}[2\,(c+d\,x)]+16\,\left(-a^2\,b+b^3\right)^2\,B\,\text{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 10,\ 0\right\}$$

$$-\frac{\left(15 a^4 A b-29 a^2 A b^3+8 A b^5-35 a^5 B+65 a^3 b^2 B-24 a b^4 B\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 b^4 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(15 a^3 A b-33 a A b^3-35 a^4 B+61 a^2 b^2 B-8 b^4 B\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{12 b^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{a \left(15 a^4 A b-38 a^2 A b^3+35 A b^5-35 a^5 B+86 a^3 b^2 B-63 a b^4 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 (a-b)^2 b^4 (a+b)^3 d}-$$

$$\frac{\left(15 a^3 A b-33 a A b^3-35 a^4 B+61 a^2 b^2 B-8 b^4 B\right) \text{Sin}[c+d x]}{12 b^3 \left(a^2-b^2\right)^2 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{\left(15 a^4 A b-29 a^2 A b^3+8 A b^5-35 a^5 B+65 a^3 b^2 B-24 a b^4 B\right) \text{Sin}[c+d x]}{4 b^4 \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{a (A b-a B) \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d \text{Cos}[c+d x]^{7/2} (a+b \text{Sec}[c+d x])^2}+\frac{a \left(3 a^2 A b-9 A b^3-7 a^3 B+13 a b^2 B\right) \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d \text{Cos}[c+d x]^{5/2} (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{48 (a-b)^2 b^4 (a+b)^2 d}$$

$$\left(\frac{2 \left(-135 a^5 A b+285 a^3 A b^3-168 a A b^5+315 a^6 B-641 a^4 b^2 B+328 a^2 b^4 B+16 b^6 B\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}+\right.$$

$$\frac{1}{a}\left(-120 a^4 A b^2+240 a^2 A b^4-48 A b^6+280 a^5 b B-512 a^3 b^3 B+160 a b^5 B\right)$$

$$\left(2 \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]-\frac{2 b \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a+b}\right)+$$

$$\left(\left(-45 a^5 A b+87 a^3 A b^3-24 a A b^5+105 a^6 B-195 a^4 b^2 B+72 a^2 b^4 B\right) \text{Cos}[2(c+d x)]\right.$$

$$\left(-4 a b \text{EllipticE}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]+4 b (a+b) \text{EllipticF}\left[\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]-2\left(a^2-2 b^2\right)\right.$$

$$\left.\left.\text{EllipticPi}\left[-\frac{a}{b},-\text{ArcSin}\left[\sqrt{\text{Cos}[c+d x]}\right],-1\right]\right) \text{Sin}[c+d x]\right) \Big/ \left(a^2 b \sqrt{1-\text{Cos}[c+d x]^2}\left(-1+2 \text{Cos}[c+d x]^2\right)\right)\Bigg)+$$

$$\frac{1}{d}\sqrt{\text{Cos}[c+d x]}\left(\frac{2 \text{Sec}[c+d x] (A b \text{Sin}[c+d x]-3 a B \text{Sin}[c+d x])}{b^4}+\frac{-a^3 A b \text{Sin}[c+d x]+a^4 B \text{Sin}[c+d x]}{2 b^3 \left(-a^2+b^2\right) (b+a \text{Cos}[c+d x])^2}+\right.$$

$$\left.\frac{7 a^5 A b \text{Sin}[c+d x]-13 a^3 A b^3 \text{Sin}[c+d x]-11 a^6 B \text{Sin}[c+d x]+17 a^4 b^2 B \text{Sin}[c+d x]}{4 b^4 \left(-a^2+b^2\right)^2 (b+a \text{Cos}[c+d x])}+\frac{2 B \text{Sec}[c+d x] \text{Tan}[c+d x]}{3 b^3}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\sqrt{a+b \text{Sec}[c+d x]}\,(A+B \text{Sec}[c+d x])}{\text{Cos}[c+d x]^{3/2}},x,11,0\right\}$$

$$-\frac{(a+b)\,(4\,A\,b+a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{(4\,A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a\,A\,b-a^2\,B+4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{B\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{(4\,A\,b+a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{16\,d}\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(\frac{1}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\,2\,\left(\frac{4\,a\,b\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(4\,a\,A\,b-3\,a^2\,B+8\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,i\,(4\,A\,b+a\,B)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\,\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\right.\right.\right.$$

$$\left.\left.\left.\left.\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\Bigg)+\frac{4\,(2\,b\,B+(4\,A\,b+a\,B)\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{b}\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,10,\,0\right\}$$

$$\frac{2\,(a+b)\,(4\,A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(a^2\,A-A\,b^2+3\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^2\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{6\,d}\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}\left(\frac{4\,\left(a^2\,A+3\,A\,b^2+6\,a\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(4\,a\,A\,b+3\,a^2\,B+6\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,2\,i\,(4\,A\,b+3\,a\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}$$

$$\mathrm{Csc}[c+d\,x]\,\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\,\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a\,A\,\mathrm{Sin}[c+d\,x]}{b+a\,\mathrm{Cos}[c+d\,x]}\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\,(2\,a\,A-b\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a\,A\,b+2\,a^2\,B+b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(2\,A\,b+3\,a\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{b\,B\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{4\,d\,(B+A\,\mathrm{Cos}[c+d\,x])}\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])$$

$$\left(\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}\,2\,\mathrm{Cos}[c+d\,x]\left(\frac{4\,a\,(2\,A\,b+a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(2\,a^2\,A+4\,A\,b^2+5\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,i\,(2\,a\,A-b\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}\,\mathrm{Csc}[c+d\,x]\,\Bigg(-2\,b\,(a+b)\,\mathrm{EllipticE}\Bigg[$$

$$i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\Bigg]+a\,\Bigg(2\,b\,\mathrm{EllipticF}\Bigg[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],$$

$$\frac{-a+b}{a+b}\Bigg]+a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\Bigg)\Bigg)\Bigg)+\frac{4\,b\,B\,\mathrm{Sin}[c+d\,x]}{b+a\,\mathrm{Cos}[c+d\,x]}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,11,\,0\right\}$$

$$-\frac{(a+b)\,(4\,A\,b+5\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,a^2\,A+4\,A\,b^2+7\,a\,b\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(12\,a\,A\,b+3\,a^2\,B+4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,B\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{(4\,A\,b+5\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{16\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}}\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{2\,(16\,a^2\,A+4\,a\,b\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\,(20\,a\,A\,b+a^2\,B+8\,b^2\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\left(2\,i\,(-4\,a\,A\,b-5\,a^2\,B)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\right.$$

$$\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\,\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(\frac{1}{4}\,\mathrm{Sec}[c+d\,x]\,(4\,A\,b\,\mathrm{Sin}[c+d\,x]+5\,a\,B\,\mathrm{Sin}[c+d\,x])+\frac{1}{2}\,b\,B\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])}$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\,(30\,a\,A\,b+3\,a^2\,B+16\,b^2\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(42\,a\,A\,b+17\,a^2\,B+16\,b^2\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(6\,a^2\,A\,b+8\,A\,b^3-a^3\,B+12\,a\,b^2\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{8\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{b\,B\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{(6\,A\,b+7\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{12\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{(30\,a\,A\,b+3\,a^2\,B+16\,b^2\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{24\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{96\,b\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}}\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(-\frac{2\left(-24\,a\,A\,b^2-28\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\right.$$

$$\frac{2\left(-6\,a^2\,A\,b-48\,A\,b^3+9\,a^3\,B-56\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-$$

$$\left(2\,i\,\left(30\,a^2\,A\,b+3\,a^3\,B+16\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\text{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\text{Cos}[c+d\,x]}{a-b}}\right.$$

$$\text{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\text{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\text{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\text{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\text{Cos}[c+d\,x])+2\,(b+a\,\text{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])}\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(\frac{1}{12}\,\text{Sec}[c+d\,x]^2\,(6\,A\,b\,\text{Sin}[c+d\,x]+7\,a\,B\,\text{Sin}[c+d\,x])+\right.$$

$$\left.\frac{\text{Sec}[c+d\,x]\,\left(30\,a\,A\,b\,\text{Sin}[c+d\,x]+3\,a^2\,B\,\text{Sin}[c+d\,x]+16\,b^2\,B\,\text{Sin}[c+d\,x]\right)}{24\,b}+\frac{1}{3}\,b\,B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,(A+B\,\text{Sec}[c+d\,x]),\,x,\,11,\,0\right\}$$

$$\frac{2\,(a+b)\,\left(9\,a^2\,A+23\,A\,b^2+35\,a\,b\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(8\,a^2\,A\,b-8\,A\,b^3+5\,a^3\,B+10\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\,B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(8\,A\,b+5\,a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,a\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{30\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(34\,a^2\,A\,b+30\,A\,b^3+10\,a^3\,B+90\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(9\,a^3\,A+23\,a\,A\,b^2+35\,a^2\,b\,B+30\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(9\,a^3\,A+23\,a\,A\,b^2+35\,a^2\,b\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2}{15}\,a\,(11\,A\,b+5\,a\,B)\,\mathrm{Sin}[c+d\,x]+\frac{1}{5}\,a^2\,A\,\mathrm{Sin}[2\,(c+d\,x)]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,11,\,0\right\}$$

$$\frac{(a+b)\left(14\,a\,A\,b+6\,a^2\,B-3\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a^3\,A+4\,a\,A\,b^2+12\,a^2\,b\,B+3\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b^2\,(2\,A\,b+5\,a\,B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{b\,(2\,a\,A-3\,b\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,a\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(4\,a^3\,A+36\,a\,A\,b^2+36\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(14\,a^2\,A\,b+12\,A\,b^3+6\,a^3\,B+27\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(14\,a^2\,A\,b+6\,a^3\,B-3\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2}{3}\,a^2\,A\,\mathrm{Sin}[c+d\,x]+b^2\,B\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}$$

Incorrect antiderivative:

$$\left\{\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x]),\,x,\,11,\,0\right\}$$

$$\frac{(a+b)\left(8\,a^2\,A-4\,A\,b^2-9\,a\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(16\,a^2\,A\,b+4\,A\,b^3+8\,a^3\,B+11\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\left(20\,a\,A\,b+15\,a^2\,B+4\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(4\,A\,b+7\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{b\,B\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{16\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(B+A\,\mathrm{Cos}[c+d\,x])}\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$(A+B\,\mathrm{Sec}[c+d\,x])\left(\frac{2\left(48\,a^2\,A\,b+16\,a^3\,B+4\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(8\,a^3\,A+36\,a\,A\,b^2+21\,a^2\,b\,B+8\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(8\,a^3\,A-4\,a\,A\,b^2-9\,a^2\,b\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\;\mathrm{Cos}[2\,(c+d\,x)]\right.$$

$$\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\;b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\left(\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left.\left(\frac{1}{4}\,\mathrm{Sec}[c+d\,x]\,\left(4\,A\,b^2\,\mathrm{Sin}[c+d\,x]+9\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+\frac{1}{2}\,b^2\,B\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(B+A\,\mathrm{Cos}[c+d\,x])\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\left(54\,a\,A\,b+33\,a^2\,B+16\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^3\,A+66\,a\,A\,b^2+59\,a^2\,b\,B+16\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(30\,a^2\,A\,b+8\,A\,b^3+5\,a^3\,B+20\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{8\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(2\,A\,b+3\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{\left(54\,a\,A\,b+33\,a^2\,B+16\,b^2\,B\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{24\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{b\,B\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{96\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{2\left(96\,a^3\,A+24\,a\,A\,b^2+52\,a^2\,b\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(126\,a^2\,A\,b+48\,A\,b^3-3\,a^3\,B+104\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(-54\,a^2\,A\,b-33\,a^3\,B-16\,a\,b^2\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Big/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\;b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\;\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\;\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+\right.$$

$$\frac{1}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(\frac{1}{12}\,\mathrm{Sec}[c+d\,x]^2\left(6\,A\,b^2\,\mathrm{Sin}[c+d\,x]+13\,a\,b\,B\,\mathrm{Sin}[c+d\,x]\right)+\right.$$

$$\left.\frac{1}{24}\,\mathrm{Sec}[c+d\,x]\left(54\,a\,A\,b\,\mathrm{Sin}[c+d\,x]+33\,a^2\,B\,\mathrm{Sin}[c+d\,x]+16\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)+\frac{1}{3}\,b^2\,B\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(A+B\,\mathrm{Sec}[c+d\,x])}{\mathrm{Cos}[c+d\,x]^{3/2}},\ x,\ 13,\ 0\right\}$$

$$-\frac{(a+b)\left(264\,a^2\,A\,b+128\,A\,b^3+15\,a^3\,B+284\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{192\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(472\,a^2\,A\,b+128\,A\,b^3+133\,a^3\,B+356\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{192\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(40\,a^3\,A\,b+160\,a\,A\,b^3-5\,a^4\,B+120\,a^2\,b^2\,B+48\,b^4\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\ \mathrm{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{64\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\ \sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(8\,A\,b+11\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{24\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+\frac{\left(104\,a\,A\,b+59\,a^2\,B+36\,b^2\,B\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{96\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{\left(264\,a^2\,A\,b+128\,A\,b^3+15\,a^3\,B+284\,a\,b^2\,B\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{192\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{b\,B\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{768\, b\, d\, (b + a \operatorname{Cos}[c + d x])^{5/2}}$$

$$\operatorname{Cos}[c + d x]^{5/2} (a + b \operatorname{Sec}[c + d x])^{5/2} \left(- \frac{2 \left(-416 a^2 A b^2 - 236 a^3 b B - 144 a b^3 B\right) \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{a + b}} \operatorname{EllipticF}\left[\frac{1}{2} (c + d x), \frac{2 a}{a + b}\right]}{\sqrt{b + a \operatorname{Cos}[c + d x]}} - \right.$$

$$\frac{2 \left(24 a^3 A b - 832 a A b^3 + 45 a^4 B - 436 a^2 b^2 B - 288 b^4 B\right) \sqrt{\frac{b + a \operatorname{Cos}[c + d x]}{a + b}} \operatorname{EllipticPi}\left[2, \frac{1}{2} (c + d x), \frac{2 a}{a + b}\right]}{\sqrt{b + a \operatorname{Cos}[c + d x]}} -$$

$$\left(2 i \left(264 a^3 A b + 128 a A b^3 + 15 a^4 B + 284 a^2 b^2 B\right) \sqrt{\frac{a - a \operatorname{Cos}[c + d x]}{a + b}} \sqrt{\frac{a + a \operatorname{Cos}[c + d x]}{a - b}} \right.$$

$$\operatorname{Cos}[2 (c + d x)] \left(-2 b (a + b) \operatorname{EllipticE}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a - b}} \sqrt{b + a \operatorname{Cos}[c + d x]}\right], \frac{-a + b}{a + b}\right] + \right.$$

$$a \left(2 b \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a - b}} \sqrt{b + a \operatorname{Cos}[c + d x]}\right], \frac{-a + b}{a + b}\right] + \right.$$

$$\left. \left. a \operatorname{EllipticPi}\left[1 - \frac{a}{b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{1}{a - b}} \sqrt{b + a \operatorname{Cos}[c + d x]}\right], \frac{-a + b}{a + b}\right] \right) \right) \operatorname{Sin}[c + d x] \Bigg) \Big/$$

$$\left. \left(\sqrt{\frac{1}{a - b}}\, b \sqrt{1 - \operatorname{Cos}[c + d x]^2} \sqrt{\frac{a^2 - a^2 \operatorname{Cos}[c + d x]^2}{a^2}} \left(-a^2 + 2 b^2 - 4 b (b + a \operatorname{Cos}[c + d x]) + 2 (b + a \operatorname{Cos}[c + d x])^2\right) \right) \right) +$$

$$\frac{1}{d (b + a \operatorname{Cos}[c + d x])^2} \operatorname{Cos}[c + d x]^{5/2} (a + b \operatorname{Sec}[c + d x])^{5/2}$$

$$\left(\frac{1}{24} \operatorname{Sec}[c + d x]^3 \left(8 A b^2 \operatorname{Sin}[c + d x] + 17 a b B \operatorname{Sin}[c + d x]\right) + \right.$$

$$\frac{1}{96} \operatorname{Sec}[c + d x]^2 \left(104 a A b \operatorname{Sin}[c + d x] + 59 a^2 B \operatorname{Sin}[c + d x] + 36 b^2 B \operatorname{Sin}[c + d x]\right) +$$

$$\frac{\operatorname{Sec}[c + d x] \left(264 a^2 A b \operatorname{Sin}[c + d x] + 128 A b^3 \operatorname{Sin}[c + d x] + 15 a^3 B \operatorname{Sin}[c + d x] + 284 a b^2 B \operatorname{Sin}[c + d x]\right)}{192 b} +$$

$$\left. \frac{1}{4} b^2 B \operatorname{Sec}[c + d x]^3 \operatorname{Tan}[c + d x] \right)$$

Incorrect antiderivative:

$$\left\{ \frac{A + B \operatorname{Sec}[c + d x]}{\operatorname{Cos}[c + d x]^{5/2} \sqrt{a + b \operatorname{Sec}[c + d x]}}, x, 11, 0 \right\}$$

$$-\frac{(a+b)\,(4\,A\,b-3\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{(4\,A\,b-a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{\left(4\,a\,A\,b-3\,a^2\,B-4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{B\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{2\,b\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{(4\,A\,b-3\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

$$\frac{1}{16\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\left(\frac{1}{b^2}\,2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\left(\frac{4\,a\,b\,B\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{\left(-12\,a\,A\,b+9\,a^2\,B+8\,b^2\,B\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\;b}\,i\,(-4\,A\,b+3\,a\,B)\,\sqrt{-\frac{a\,(-1+\mathrm{Cos}[c+d\,x])}{a+b}}\;\sqrt{\frac{a\,(1+\mathrm{Cos}[c+d\,x])}{a-b}}$$

$$\mathrm{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\;\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+$$

$$\left.\frac{4\,(b+a\,\mathrm{Cos}[c+d\,x])\,(2\,b\,B+(4\,A\,b-3\,a\,B)\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{b^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]}{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,8,\,0\right\}$$

$$-\frac{2\,(A\,b-a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{(a-b)\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,B\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,a\,(A\,b-a\,B)\,\mathrm{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$\frac{1}{2\,b\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\left(\frac{1}{(a-b)\,(a+b)}\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(-\frac{4\,b\,(A\,b-a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\right.\right.$$

$$\frac{2\,\left(a\,A\,b-3\,a^2\,B+2\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,(-A\,b+a\,B)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}\,\text{Csc}[c+d\,x]$$

$$\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\,\text{EllipticPi}\left[1-\frac{a}{b},\right.\right.$$

$$\left.\left.\left.\left.i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+\frac{4\,a\,(A\,b-a\,B)\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{a^2-b^2}\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,11,\,0\right\}$$

$$\frac{\left(2\,a\,A\,b-3\,a^2\,B+b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{(a-b)\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{B\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{(2\,A\,b-3\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{\left(2\,a\,A\,b-3\,a^2\,B+b^2\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{b^2\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{4\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\left(-\frac{1}{(a-b)\,b^2\,(a+b)}\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(\frac{8\,a\,b\,(-A\,b+a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(-6\,a^2\,A\,b+4\,A\,b^3+9\,a^3\,B-7\,a\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,\left(-2\,a\,A\,b+3\,a^2\,B-b^2\,B\right)\,\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}$$

$$\text{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+a\right.$$

$$\left.\left.\left.\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)+$$

$$\left.\frac{4\,(b+a\,\text{Cos}[c+d\,x])\,\left(b\,\left(-a^2+b^2\right)\,B+a\,\left(2\,a\,A\,b-3\,a^2\,B+b^2\,B\right)\,\text{Cos}[c+d\,x]\right)\,\text{Tan}[c+d\,x]}{-a^2\,b^2+b^4}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,12,\,0\right\}$$

$$-\frac{\left(12\,a^2\,A\,b-4\,A\,b^3-15\,a^3\,B+7\,a\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,(a-b)\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(4\,A\,b-5\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(12\,a\,A\,b-15\,a^2\,B-4\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(4\,a\,A\,b-5\,a^2\,B+b^2\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,b^2\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{\left(12\,a^2\,A\,b-4\,A\,b^3-15\,a^3\,B+7\,a\,b^2\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,b^3\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\frac{1}{16\,(a-b)\,b^3\,(a+b)\,d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(\frac{2\left(-16\,a^2\,A\,b^2+20\,a^3\,b\,B-4\,a\,b^3\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(-36\,a^3\,A\,b+28\,a\,A\,b^3+45\,a^4\,B-29\,a^2\,b^2\,B-8\,b^4\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\left(2\,i\left(-12\,a^3\,A\,b+4\,a\,A\,b^3+15\,a^4\,B-7\,a^2\,b^2\,B\right)\sqrt{\frac{a-a\,\text{Cos}[c+d\,x]}{a+b}}\sqrt{\frac{a+a\,\text{Cos}[c+d\,x]}{a-b}}\right.$$

$$\text{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\text{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\sqrt{1-\text{Cos}[c+d\,x]^2}\sqrt{\frac{a^2-a^2\,\text{Cos}[c+d\,x]^2}{a^2}}\left(-a^2+2\,b^2-4\,b\,(b+a\,\text{Cos}[c+d\,x])+2\,(b+a\,\text{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])^2\left(\frac{\text{Sec}[c+d\,x]\,(4\,A\,b\,\text{Sin}[c+d\,x]-7\,a\,B\,\text{Sin}[c+d\,x])}{4\,b^3}-\frac{2\left(a^3\,A\,b\,\text{Sin}[c+d\,x]-a^4\,B\,\text{Sin}[c+d\,x]\right)}{b^3\left(-a^2+b^2\right)(b+a\,\text{Cos}[c+d\,x])}+\frac{B\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^2}\right)}{d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,11,\,0\right\}$$

$$\frac{2\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,(a-b)^2\,b^2\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b-a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,b\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,B\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}-\frac{2\,a\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\text{Sin}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{6\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$\left(\frac{1}{(a-b)^2\,b^2\,(a+b)^2}\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\left(\frac{4\,b\,\left(a^2\,A\,b+3\,A\,b^3+2\,a^3\,B-6\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+\right.\right.$$

$$\frac{2\,\left(4\,a\,A\,b^3+9\,a^4\,B-19\,a^2\,b^2\,B+6\,b^4\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}+$$

$$\frac{1}{a\,\sqrt{\frac{1}{a-b}}\,b}\,2\,i\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\sqrt{-\frac{a\,(-1+\text{Cos}[c+d\,x])}{a+b}}\,\sqrt{\frac{a\,(1+\text{Cos}[c+d\,x])}{a-b}}$$

$$\text{Csc}[c+d\,x]\left(-2\,b\,(a+b)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.\left.a\,\text{EllipticPi}\left[1-\frac{a}{b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\right)-$$

$$\left.\frac{4\,a\,(b+a\,\text{Cos}[c+d\,x])\,\left(b\,\left(-a^2\,A\,b+5\,A\,b^3+4\,a^3\,B-8\,a\,b^2\,B\right)+a\,\left(4\,A\,b^3+3\,a^3\,B-7\,a\,b^2\,B\right)\,\text{Cos}[c+d\,x]\right)\,\text{Sin}[c+d\,x]}{\left(-a^2\,b+b^3\right)^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,12,\,0\right\}$$

$$\frac{\left(6\,a^3\,A\,b-14\,a\,A\,b^3-15\,a^4\,B+26\,a^2\,b^2\,B-3\,b^4\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,(a-b)^2\,b^3\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2\,a\,A\,b-5\,a^2\,B+3\,b^2\,B\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,b^2\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,A\,b-5\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,(A\,b-a\,B)\,\text{Sin}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+\frac{2\,a\,\left(2\,a^2\,A\,b-6\,A\,b^3-5\,a^3\,B+9\,a\,b^2\,B\right)\,\text{Sin}[c+d\,x]}{3\,b^2\,\left(a^2-b^2\right)^2\,d\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(6\,a^3\,A\,b-14\,a\,A\,b^3-15\,a^4\,B+26\,a^2\,b^2\,B-3\,b^4\,B\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,b^3\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$-\frac{1}{12\,(a-b)^2\,b^3\,(a+b)^2\,d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\left(\frac{2\left(-8\,a^3\,A\,b^2+24\,a\,A\,b^4+20\,a^4\,b\,B-36\,a^2\,b^3\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\left(-18\,a^4\,A\,b+38\,a^2\,A\,b^3-12\,A\,b^5+45\,a^5\,B-86\,a^3\,b^2\,B+33\,a\,b^4\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\left(2\,i\,\left(-6\,a^4\,A\,b+14\,a^2\,A\,b^3+15\,a^5\,B-26\,a^3\,b^2\,B+3\,a\,b^4\,B\right)\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)+$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^3\left(\frac{2\left(a^2\,A\,b\,\mathrm{Sin}[c+d\,x]-a^3\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+\frac{2\left(-3\,a^4\,A\,b\,\mathrm{Sin}[c+d\,x]+7\,a^2\,A\,b^3\,\mathrm{Sin}[c+d\,x]+6\,a^5\,B\,\mathrm{Sin}[c+d\,x]-10\,a^3\,b^2\,B\,\mathrm{Sin}[c+d\,x]\right)}{3\,b^3\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{B\,\mathrm{Tan}[c+d\,x]}{b^3}\right)}{d\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{a\,(4\,A+3\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{2\,b\,(5\,A+4\,C)\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a\,(4\,A+3\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+$$

$$\frac{b\,(5\,A+4\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{a\,C\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{20\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 a C \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a A \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 a C \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 a C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{a C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a A}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 a C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+\frac{2 A b \text{Tan}[c+d x]}{3 d}+$$
$$\frac{8 b C \text{Tan}[c+d x]}{15 d}+\frac{A b \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}+\frac{4 b C \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{15 d}+\frac{b C \text{Sec}[c+d x]^4 \text{Tan}[c+d x]}{5 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x])\left(A+C \text{Sec}[c+d x]^2\right), x, 5, 0\right\}$$

$$\frac{b (4 A+3 C) \text{ArcTanh}[\text{Sin}[c+d x]]}{8 d}+\frac{a (3 A+2 C) \text{Tan}[c+d x]}{3 d}+\frac{b (4 A+3 C) \text{Sec}[c+d x] \text{Tan}[c+d x]}{8 d}+$$
$$\frac{a C \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{12 d}+\frac{C \text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{4 d}$$
$$-\frac{A b \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 b C \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{A b \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 b C \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{b C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{A b}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 b C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{A b}{4 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 b C}{16 d\left(\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{a A \text{Tan}[c+d x]}{d}+\frac{2 a C \text{Tan}[c+d x]}{3 d}+\frac{a C \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \text{Sec}[c+d x])\left(A+C \text{Sec}[c+d x]^2\right), x, 4, 0\right\}$$

$$a A x+\frac{b (2 A+C) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{a C \text{Tan}[c+d x]}{2 d}+\frac{C (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{2 d}$$

$$\frac{1}{4}\left(4\,a\,A\,x-\frac{2\,b\,(2\,A+C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,A\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{2\,b\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{b\,C}{d\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{b\,C}{d\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,a\,C\,\text{Tan}[c+d\,x]}{d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{a\,b\,(4\,A+3\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{4\,d}+\frac{\left(15\,a^2\,A+10\,A\,b^2+10\,a^2\,C+8\,b^2\,C\right)\text{Tan}[c+d\,x]}{15\,d}+\frac{a\,b\,(4\,A+3\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{4\,d}+\frac{\left(10\,A\,b^2+a^2\,C+8\,b^2\,C\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{30\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{10\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{1}{480\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(-240\,a\,b\,(4\,A+3\,C)\,\text{Cos}[c+d\,x]^4\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(40\left(a^2\,(9\,A+7\,C)+b^2\,(7\,A+8\,C)\right)\text{Sin}[d\,x]-120\left(A\,b^2+a^2\,(2\,A+C)\right)\text{Sin}[2\,c+d\,x]+120\,a\,A\,b\,\text{Sin}[c+2\,d\,x]+210\,a\,b\,C\,\text{Sin}[c+2\,d\,x]+120\,a\,A\,b\,\text{Sin}[3\,c+2\,d\,x]+210\,a\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+240\,a^2\,A\,\text{Sin}[2\,c+3\,d\,x]+200\,A\,b^2\,\text{Sin}[2\,c+3\,d\,x]+200\,a^2\,C\,\text{Sin}[2\,c+3\,d\,x]+160\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]-60\,a^2\,A\,\text{Sin}[4\,c+3\,d\,x]+60\,a\,A\,b\,\text{Sin}[3\,c+4\,d\,x]+45\,a\,b\,C\,\text{Sin}[3\,c+4\,d\,x]+60\,a\,A\,b\,\text{Sin}[5\,c+4\,d\,x]+45\,a\,b\,C\,\text{Sin}[5\,c+4\,d\,x]+60\,a^2\,A\,\text{Sin}[4\,c+5\,d\,x]+40\,A\,b^2\,\text{Sin}[4\,c+5\,d\,x]+40\,a^2\,C\,\text{Sin}[4\,c+5\,d\,x]+32\,b^2\,C\,\text{Sin}[4\,c+5\,d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{\left(8\,a^2\,A+4\,A\,b^2+4\,a^2\,C+3\,b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,a\,b\,(3\,A+2\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{\left(12\,A\,b^2+2\,a^2\,C+9\,b^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{24\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{1}{96\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])}\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(24\left(4\,a^2\,(2\,A+C)+b^2\,(4\,A+3\,C)\right)\text{Cos}[c+d\,x]^4\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-\text{Sec}[c]\,\left(-48\,a\,b\,(3\,A+2\,C)\,\text{Sin}[c]+3\left(4\,A\,b^2+4\,a^2\,C+11\,b^2\,C\right)\text{Sin}[d\,x]+12\,A\,b^2\,\text{Sin}[2\,c+d\,x]+12\,a^2\,C\,\text{Sin}[2\,c+d\,x]+33\,b^2\,C\,\text{Sin}[2\,c+d\,x]+144\,a\,A\,b\,\text{Sin}[c+2\,d\,x]+128\,a\,b\,C\,\text{Sin}[c+2\,d\,x]-48\,a\,A\,b\,\text{Sin}[3\,c+2\,d\,x]+12\,A\,b^2\,\text{Sin}[2\,c+3\,d\,x]+12\,a^2\,C\,\text{Sin}[2\,c+3\,d\,x]+9\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]+12\,A\,b^2\,\text{Sin}[4\,c+3\,d\,x]+12\,a^2\,C\,\text{Sin}[4\,c+3\,d\,x]+9\,b^2\,C\,\text{Sin}[4\,c+3\,d\,x]+48\,a\,A\,b\,\text{Sin}[3\,c+4\,d\,x]+32\,a\,b\,C\,\text{Sin}[3\,c+4\,d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$a^2 A x+\frac{a\,b\,(2\,A+C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{\left(3\,A\,b^2+a^2\,C+2\,b^2\,C\right)\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{a\,C\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{C\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{6\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\left(12\,a^2\,A\,x-\frac{12\,a\,b\,(2\,A+C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{12\,a\,b\,(2\,A+C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{2\,b^2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{b\,C\left((6\,a+b)\,\mathrm{Cos}\left[\frac{c}{2}\right]+(-6\,a+b)\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{4\left(3\,A\,b^2+3\,a^2\,C+2\,b^2\,C\right)\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{2\,b^2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$
$$\left.\frac{b\,C\left((6\,a+b)\,\mathrm{Cos}\left[\frac{c}{2}\right]+(6\,a-b)\,\mathrm{Sin}\left[\frac{c}{2}\right]\right)}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\left(3\,A\,b^2+3\,a^2\,C+2\,b^2\,C\right)\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$2\,a\,A\,b\,x+\frac{\left(2\,A\,b^2+2\,a^2\,C+b^2\,C\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{A\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{d}-\frac{a\,b\,(2\,A-3\,C)\,\mathrm{Tan}[c+d\,x]}{2\,d}-\frac{b\,(2\,A-C)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])}\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^2$$
$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(8\,a\,A\,b\,x-\frac{2\left(2\,A\,b^2+\left(2\,a^2+b^2\right)C\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{2\left(2\,A\,b^2+\left(2\,a^2+b^2\right)C\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,a^2\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{4\,a^2\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+$$
$$\frac{b^2\,C}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,a\,b\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$
$$\left.\frac{b^2\,C}{d\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,a\,b\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{1}{2} a^2 A x + A b^2 x + a^2 C x + \frac{2 a b C \text{ArcTanh}[\text{Sin}[c+d x]]}{d} + \frac{A b (a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{d} + \frac{A \text{Cos}[c+d x] (a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{2 d} - \frac{b^2 (3 A-2 C) \text{Tan}[c+d x]}{2 d}$$

$$\frac{1}{2 (A+2 C+A \text{Cos}[2 (c+d x)])} \text{Cos}[c+d x]^2 \left(A+C \text{Sec}[c+d x]^2\right) \left(2 \left(2 A b^2+a^2 (A+2 C)\right) x - \frac{8 a b C \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]}{d} + \frac{8 a b C \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]}{d} + \frac{8 a A b \text{Cos}[d x] \text{Sin}[c]}{d} + \frac{a^2 A \text{Cos}[2 d x] \text{Sin}[2 c]}{d} + \frac{8 a A b \text{Cos}[c] \text{Sin}[d x]}{d} + \frac{a^2 A \text{Cos}[2 c] \text{Sin}[2 d x]}{d} + \frac{4 b^2 C \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)} + \frac{4 b^2 C \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{b \left(24 a^2 A+6 A b^2+18 a^2 C+5 b^2 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{16 d} + \frac{a \left(15 a^2 A+30 A b^2+10 a^2 C+24 b^2 C\right) \text{Tan}[c+d x]}{15 d} + \frac{b \left(24 a^2 A+6 A b^2+18 a^2 C+5 b^2 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{16 d} + \frac{a \left(90 A b^2+2 a^2 C+71 b^2 C\right) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{120 d} + \frac{\left(30 A b^2+6 a^2 C+25 b^2 C\right) \text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{120 d} + \frac{a C \text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{10 d} + \frac{C \text{Sec}[c+d x]^2 (a+b \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{6 d}$$

$$\frac{\left(-24 a^2 A b-6 A b^3-18 a^2 b C-5 b^3 C\right) \text{Cos}[c+d x]^5 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)}{8 d (b+a \text{Cos}[c+d x])^3 (A+2 C+A \text{Cos}[2 c+2 d x])} + \frac{\left(24 a^2 A b+6 A b^3+18 a^2 b C+5 b^3 C\right) \text{Cos}[c+d x]^5 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right)}{8 d (b+a \text{Cos}[c+d x])^3 (A+2 C+A \text{Cos}[2 c+2 d x])} +$$

$$\frac{1}{3840 d (b+a \text{Cos}[c+d x])^3 (A+2 C+A \text{Cos}[2 c+2 d x])} \text{Sec}[c] \text{Sec}[c+d x] (a+b \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right) \left(-2400 a^3 A \text{Sin}[c]-4800 a A b^2 \text{Sin}[c]-1600 a^3 C \text{Sin}[c]-3840 a b^2 C \text{Sin}[c]+720 a^2 A b \text{Sin}[d x]+420 A b^3 \text{Sin}[d x]+1260 a^2 b C \text{Sin}[d x]+990 b^3 C \text{Sin}[d x]+720 a^2 A b \text{Sin}[2 c+d x]+420 A b^3 \text{Sin}[2 c+d x]+1260 a^2 b C \text{Sin}[2 c+d x]+990 b^3 C \text{Sin}[2 c+d x]+2400 a^3 A \text{Sin}[c+2 d x]+5760 a A b^2 \text{Sin}[c+2 d x]+1920 a^3 C \text{Sin}[c+2 d x]+5760 a b^2 C \text{Sin}[c+2 d x]-1200 a^3 A \text{Sin}[3 c+2 d x]-1440 a A b^2 \text{Sin}[3 c+2 d x]-480 a^3 C \text{Sin}[3 c+2 d x]+1080 a^2 A b \text{Sin}[2 c+3 d x]+510 A b^3 \text{Sin}[2 c+3 d x]+1530 a^2 b C \text{Sin}[2 c+3 d x]+425 b^3 C \text{Sin}[2 c+3 d x]+1080 a^2 A b \text{Sin}[4 c+3 d x]+510 A b^3 \text{Sin}[4 c+3 d x]+1530 a^2 b C \text{Sin}[4 c+3 d x]+425 b^3 C \text{Sin}[4 c+3 d x]+1200 a^3 A \text{Sin}[3 c+4 d x]+2880 a A b^2 \text{Sin}[3 c+4 d x]+960 a^3 C \text{Sin}[3 c+4 d x]+2304 a b^2 C \text{Sin}[3 c+4 d x]-240 a^3 A \text{Sin}[5 c+4 d x]+360 a^2 A b \text{Sin}[4 c+5 d x]+90 A b^3 \text{Sin}[4 c+5 d x]+270 a^2 b C \text{Sin}[4 c+5 d x]+75 b^3 C \text{Sin}[4 c+5 d x]+360 a^2 A b \text{Sin}[6 c+5 d x]+90 A b^3 \text{Sin}[6 c+5 d x]+270 a^2 b C \text{Sin}[6 c+5 d x]+75 b^3 C \text{Sin}[6 c+5 d x]+240 a^3 A \text{Sin}[5 c+6 d x]+480 a A b^2 \text{Sin}[5 c+6 d x]+160 a^3 C \text{Sin}[5 c+6 d x]+384 a b^2 C \text{Sin}[5 c+6 d x]\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d x] (a+b \text{Sec}[c+d x])^3 \left(A+C \text{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$\frac{a\left(8a^2A+12Ab^2+4a^2C+9b^2C\right)\text{ArcTanh}[\text{Sin}[c+dx]]}{8d}+\frac{b\left(45a^2A+10Ab^2+30a^2C+8b^2C\right)\text{Tan}[c+dx]}{15d}+$$
$$\frac{a\left(140Ab^2+6a^2C+103b^2C\right)\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{120d}+\frac{\left(10Ab^2+3a^2C+8b^2C\right)\text{Sec}[c+dx]\,(a+b\,\text{Sec}[c+dx])\,\text{Tan}[c+dx]}{30d}+$$
$$\frac{3aC\,\text{Sec}[c+dx]\,(a+b\,\text{Sec}[c+dx])^2\,\text{Tan}[c+dx]}{20d}+\frac{C\,\text{Sec}[c+dx]\,(a+b\,\text{Sec}[c+dx])^3\,\text{Tan}[c+dx]}{5d}$$

$$\frac{1}{960d\,(b+a\,\text{Cos}[c+dx])^3\,(A+2C+A\,\text{Cos}[2(c+dx)])}$$
$$(a+b\,\text{Sec}[c+dx])^3\left(A+C\,\text{Sec}[c+dx]^2\right)\Big(-240a\left(4a^2(2A+C)+3b^2(4A+3C)\right)$$
$$\text{Cos}[c+dx]^5\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+$$
$$\text{Sec}[c]\left(80b\left(3a^2(9A+7C)+b^2(7A+8C)\right)\text{Sin}[dx]-240b\left(Ab^2+3a^2(2A+C)\right)\text{Sin}[2c+dx]+360aAb^2\text{Sin}[c+2dx]+\right.$$
$$120a^3C\,\text{Sin}[c+2dx]+630ab^2C\,\text{Sin}[c+2dx]+360aAb^2\text{Sin}[3c+2dx]+120a^3C\,\text{Sin}[3c+2dx]+$$
$$630ab^2C\,\text{Sin}[3c+2dx]+1440a^2Ab\,\text{Sin}[2c+3dx]+400Ab^3\text{Sin}[2c+3dx]+1200a^2bC\,\text{Sin}[2c+3dx]+$$
$$320b^3C\,\text{Sin}[2c+3dx]-360a^2Ab\,\text{Sin}[4c+3dx]+180aAb^2\text{Sin}[3c+4dx]+60a^3C\,\text{Sin}[3c+4dx]+$$
$$135ab^2C\,\text{Sin}[3c+4dx]+180aAb^2\text{Sin}[5c+4dx]+60a^3C\,\text{Sin}[5c+4dx]+135ab^2C\,\text{Sin}[5c+4dx]+$$
$$\left.360a^2Ab\,\text{Sin}[4c+5dx]+80Ab^3\text{Sin}[4c+5dx]+240a^2bC\,\text{Sin}[4c+5dx]+64b^3C\,\text{Sin}[4c+5dx]\right)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\text{Sec}[c+dx])^3\left(A+C\,\text{Sec}[c+dx]^2\right),x,6,0\right\}$$

$$a^3Ax+\frac{b\left(24a^2A+4Ab^2+12a^2C+3b^2C\right)\text{ArcTanh}[\text{Sin}[c+dx]]}{8d}+$$
$$\frac{a\left(20Ab^2+2a^2C+13b^2C\right)\text{Tan}[c+dx]}{8d}+\frac{\left(4Ab^2+2a^2C+3b^2C\right)(a+b\,\text{Sec}[c+dx])\,\text{Tan}[c+dx]}{8d}+$$
$$\frac{aC\,(a+b\,\text{Sec}[c+dx])^2\,\text{Tan}[c+dx]}{4d}+\frac{C\,(a+b\,\text{Sec}[c+dx])^3\,\text{Tan}[c+dx]}{4d}$$

$$\frac{1}{32d\,(b+a\,\text{Cos}[c+dx])^3\,(A+2C+A\,\text{Cos}[2(c+dx)])}$$
$$\text{Cos}[c+dx]\,(a+b\,\text{Sec}[c+dx])^3\left(A+C\,\text{Sec}[c+dx]^2\right)\Big(-8b\left(12a^2(2A+C)+b^2(4A+3C)\right)$$
$$\text{Cos}[c+dx]^4\left(\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]-\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+dx)\right]+\text{Sin}\left[\frac{1}{2}(c+dx)\right]\right]\right)+$$
$$\text{Sec}[c]\left(24a^3Adx\,\text{Cos}[c]+16a^3Adx\,\text{Cos}[c+2dx]+16a^3Adx\,\text{Cos}[3c+2dx]+4a^3Adx\,\text{Cos}[3c+4dx]+\right.$$
$$4a^3Adx\,\text{Cos}[5c+4dx]-72aAb^2\text{Sin}[c]-24a^3C\,\text{Sin}[c]-48ab^2C\,\text{Sin}[c]+4Ab^3\text{Sin}[dx]+12a^2bC\,\text{Sin}[dx]+$$
$$11b^3C\,\text{Sin}[dx]+4Ab^3\text{Sin}[2c+dx]+12a^2bC\,\text{Sin}[2c+dx]+11b^3C\,\text{Sin}[2c+dx]+72aAb^2\text{Sin}[c+2dx]+$$
$$24a^3C\,\text{Sin}[c+2dx]+64ab^2C\,\text{Sin}[c+2dx]-24aAb^2\text{Sin}[3c+2dx]-8a^3C\,\text{Sin}[3c+2dx]+4Ab^3\text{Sin}[2c+3dx]+$$
$$12a^2bC\,\text{Sin}[2c+3dx]+3b^3C\,\text{Sin}[2c+3dx]+4Ab^3\text{Sin}[4c+3dx]+12a^2bC\,\text{Sin}[4c+3dx]+$$
$$\left.3b^3C\,\text{Sin}[4c+3dx]+24aAb^2\text{Sin}[3c+4dx]+8a^3C\,\text{Sin}[3c+4dx]+16ab^2C\,\text{Sin}[3c+4dx]\right)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+dx]\,(a+b\,\text{Sec}[c+dx])^3\left(A+C\,\text{Sec}[c+dx]^2\right),x,6,0\right\}$$

$$3 a^2 A b x + \frac{a \left(6 A b^2 + 2 a^2 C + 3 b^2 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{A (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{d} - \frac{b \left(6 a^2 A - 6 A b^2 - 11 a^2 C - 4 b^2 C\right) \text{Tan}[c + d x]}{6 d} - \frac{a b (6 A - 5 C) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{6 d} - \frac{b (3 A - C) (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{3 d}$$

$$\frac{1}{24 d (b + a \text{Cos}[c + d x])^3 (A + 2 C + A \text{Cos}[2 (c + d x)])} \text{Cos}[c + d x]^2 (a + b \text{Sec}[c + d x])^3 \left(A + C \text{Sec}[c + d x]^2\right) \Big(-24 a \left(6 A b^2 + 2 a^2 C + 3 b^2 C\right) \text{Cos}[c + d x]^3 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + \text{Sec}[c] \big(54 a^2 A b d x \text{Cos}[d x] + 54 a^2 A b d x \text{Cos}[2 c + d x] + 18 a^2 A b d x \text{Cos}[2 c + 3 d x] + 18 a^2 A b d x \text{Cos}[4 c + 3 d x] + 24 A b^3 \text{Sin}[d x] + 72 a^2 b C \text{Sin}[d x] + 24 b^3 C \text{Sin}[d x] - 12 A b^3 \text{Sin}[2 c + d x] - 36 a^2 b C \text{Sin}[2 c + d x] + 6 a^3 A \text{Sin}[c + 2 d x] + 18 a b^2 C \text{Sin}[c + 2 d x] + 6 a^3 A \text{Sin}[3 c + 2 d x] + 18 a b^2 C \text{Sin}[3 c + 2 d x] + 12 A b^3 \text{Sin}[2 c + 3 d x] + 36 a^2 b C \text{Sin}[2 c + 3 d x] + 8 b^3 C \text{Sin}[2 c + 3 d x] + 3 a^3 A \text{Sin}[3 c + 4 d x] + 3 a^3 A \text{Sin}[5 c + 4 d x]\big)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^2 (a + b \text{Sec}[c + d x])^3 \left(A + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{1}{2} a \left(a^2 A + 6 A b^2 + 2 a^2 C\right) x + \frac{b \left(2 A b^2 + 6 a^2 C + b^2 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{3 A b (a + b \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} + \frac{A \text{Cos}[c + d x] (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{2 d} - \frac{5 a b^2 (A - C) \text{Tan}[c + d x]}{2 d} - \frac{b^2 (4 A - C) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{2 d}$$

$$\frac{1}{2 (b + a \text{Cos}[c + d x])^3 (A + 2 C + A \text{Cos}[2 (c + d x)])} \text{Cos}[c + d x]^5 (a + b \text{Sec}[c + d x])^3 \left(A + C \text{Sec}[c + d x]^2\right) \Bigg(2 a \left(6 A b^2 + a^2 (A + 2 C)\right) x - \frac{2 b \left(2 A b^2 + \left(6 a^2 + b^2\right) C\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]}{d} + \frac{2 b \left(2 A b^2 + \left(6 a^2 + b^2\right) C\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]}{d} + \frac{12 a^2 A b \text{Cos}[d x] \text{Sin}[c]}{d} + \frac{a^3 A \text{Cos}[2 d x] \text{Sin}[2 c]}{d} + \frac{12 a^2 A b \text{Cos}[c] \text{Sin}[d x]}{d} + \frac{a^3 A \text{Cos}[2 c] \text{Sin}[2 d x]}{d} + \frac{b^3 C}{d \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} + \frac{12 a b^2 C \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right] - \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)} - \frac{b^3 C}{d \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)^2} + \frac{12 a b^2 C \text{Sin}\left[\frac{d x}{2}\right]}{d \left(\text{Cos}\left[\frac{c}{2}\right] + \text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right)}\Bigg)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c + d x]^2 (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right), x, 8, 0\right\}$$

$$\frac{a\,b\,\left(8\,a^2\,A+6\,A\,b^2+6\,a^2\,C+5\,b^2\,C\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{4\,d}+$$
$$\frac{\left(105\,a^4\,A+420\,a^2\,A\,b^2+56\,A\,b^4+70\,a^4\,C+336\,a^2\,b^2\,C+48\,b^4\,C\right)\,\text{Tan}[c+d\,x]}{105\,d}+$$
$$\frac{a\,b\,\left(8\,a^2\,A+6\,A\,b^2+6\,a^2\,C+5\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{4\,d}+$$
$$\frac{\left(252\,a^2\,A\,b^2+56\,A\,b^4+2\,a^4\,C+197\,a^2\,b^2\,C+48\,b^4\,C\right)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{210\,d}+$$
$$\frac{a\,\left(126\,A\,b^2+6\,a^2\,C+103\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{210\,d}+$$
$$\frac{\left(7\,A\,b^2+2\,a^2\,C+6\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{35\,d}+$$
$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{21\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^4\,\text{Tan}[c+d\,x]}{7\,d}$$
$$\frac{\left(-8\,a^3\,A\,b-6\,a\,A\,b^3-6\,a^3\,b\,C-5\,a\,b^3\,C\right)\,\text{Cos}[c+d\,x]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{2\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{\left(8\,a^3\,A\,b+6\,a\,A\,b^3+6\,a^3\,b\,C+5\,a\,b^3\,C\right)\,\text{Cos}[c+d\,x]^6\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{2\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{1}{13440\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+A\,\text{Cos}[2\,c+2\,d\,x])}\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)$$
$$\left(8400\,a^4\,A\,\text{Sin}[d\,x]+36960\,a^2\,A\,b^2\,\text{Sin}[d\,x]+5600\,A\,b^4\,\text{Sin}[d\,x]+6160\,a^4\,C\,\text{Sin}[d\,x]+33600\,a^2\,b^2\,C\,\text{Sin}[d\,x]+\right.$$
$$6720\,b^4\,C\,\text{Sin}[d\,x]-6300\,a^4\,A\,\text{Sin}[2\,c+d\,x]-21840\,a^2\,A\,b^2\,\text{Sin}[2\,c+d\,x]-2240\,A\,b^4\,\text{Sin}[2\,c+d\,x]-$$
$$3640\,a^4\,C\,\text{Sin}[2\,c+d\,x]-13440\,a^2\,b^2\,C\,\text{Sin}[2\,c+d\,x]+4200\,a^3\,A\,b\,\text{Sin}[c+2\,d\,x]+6510\,a\,A\,b^3\,\text{Sin}[c+2\,d\,x]+$$
$$6510\,a^3\,b\,C\,\text{Sin}[c+2\,d\,x]+9905\,a\,b^3\,C\,\text{Sin}[c+2\,d\,x]+4200\,a^3\,A\,b\,\text{Sin}[3\,c+2\,d\,x]+6510\,a\,A\,b^3\,\text{Sin}[3\,c+2\,d\,x]+$$
$$6510\,a^3\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+9905\,a\,b^3\,C\,\text{Sin}[3\,c+2\,d\,x]+6300\,a^4\,A\,\text{Sin}[2\,c+3\,d\,x]+30240\,a^2\,A\,b^2\,\text{Sin}[2\,c+3\,d\,x]+$$
$$4704\,A\,b^4\,\text{Sin}[2\,c+3\,d\,x]+5040\,a^4\,C\,\text{Sin}[2\,c+3\,d\,x]+28224\,a^2\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]+4032\,b^4\,C\,\text{Sin}[2\,c+3\,d\,x]-$$
$$2520\,a^4\,A\,\text{Sin}[4\,c+3\,d\,x]-5040\,a^2\,A\,b^2\,\text{Sin}[4\,c+3\,d\,x]-840\,a^4\,C\,\text{Sin}[4\,c+3\,d\,x]+3360\,a^3\,A\,b\,\text{Sin}[3\,c+4\,d\,x]+$$
$$4200\,a\,A\,b^3\,\text{Sin}[3\,c+4\,d\,x]+4200\,a^3\,b\,C\,\text{Sin}[3\,c+4\,d\,x]+3500\,a\,b^3\,C\,\text{Sin}[3\,c+4\,d\,x]+3360\,a^3\,A\,b\,\text{Sin}[5\,c+4\,d\,x]+$$
$$4200\,a\,A\,b^3\,\text{Sin}[5\,c+4\,d\,x]+4200\,a^3\,b\,C\,\text{Sin}[5\,c+4\,d\,x]+3500\,a\,b^3\,C\,\text{Sin}[5\,c+4\,d\,x]+2520\,a^4\,A\,\text{Sin}[4\,c+5\,d\,x]+$$
$$11760\,a^2\,A\,b^2\,\text{Sin}[4\,c+5\,d\,x]+1568\,A\,b^4\,\text{Sin}[4\,c+5\,d\,x]+1960\,a^4\,C\,\text{Sin}[4\,c+5\,d\,x]+9408\,a^2\,b^2\,C\,\text{Sin}[4\,c+5\,d\,x]+$$
$$1344\,b^4\,C\,\text{Sin}[4\,c+5\,d\,x]-420\,a^4\,A\,\text{Sin}[6\,c+5\,d\,x]+840\,a^3\,A\,b\,\text{Sin}[5\,c+6\,d\,x]+630\,a\,A\,b^3\,\text{Sin}[5\,c+6\,d\,x]+$$
$$630\,a^3\,b\,C\,\text{Sin}[5\,c+6\,d\,x]+525\,a\,b^3\,C\,\text{Sin}[5\,c+6\,d\,x]+840\,a^3\,A\,b\,\text{Sin}[7\,c+6\,d\,x]+630\,a\,A\,b^3\,\text{Sin}[7\,c+6\,d\,x]+$$
$$630\,a^3\,b\,C\,\text{Sin}[7\,c+6\,d\,x]+525\,a\,b^3\,C\,\text{Sin}[7\,c+6\,d\,x]+420\,a^4\,A\,\text{Sin}[6\,c+7\,d\,x]+1680\,a^2\,A\,b^2\,\text{Sin}[6\,c+7\,d\,x]+$$
$$\left.224\,A\,b^4\,\text{Sin}[6\,c+7\,d\,x]+280\,a^4\,C\,\text{Sin}[6\,c+7\,d\,x]+1344\,a^2\,b^2\,C\,\text{Sin}[6\,c+7\,d\,x]+192\,b^4\,C\,\text{Sin}[6\,c+7\,d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$
$$\frac{\left(16\,a^4\,A+48\,a^2\,A\,b^2+6\,A\,b^4+8\,a^4\,C+36\,a^2\,b^2\,C+5\,b^4\,C\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{16\,d}+$$
$$\frac{4\,a\,b\,\left(15\,a^2\,A+10\,A\,b^2+10\,a^2\,C+8\,b^2\,C\right)\,\text{Tan}[c+d\,x]}{15\,d}+$$
$$\frac{\left(460\,a^2\,A\,b^2+90\,A\,b^4+8\,a^4\,C+334\,a^2\,b^2\,C+75\,b^4\,C\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{240\,d}+$$
$$\frac{a\,\left(50\,A\,b^2+4\,a^2\,C+39\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{60\,d}+$$
$$\frac{\left(30\,A\,b^2+12\,a^2\,C+25\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{120\,d}+$$
$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{15\,d}+\frac{C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^4\,\text{Tan}[c+d\,x]}{6\,d}$$

$$\left(\left(-16 a^4 A-48 a^2 A b^2-6 A b^4-8 a^4 C-36 a^2 b^2 C-5 b^4 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(16 a^4 A+48 a^2 A b^2+6 A b^4+8 a^4 C+36 a^2 b^2 C+5 b^4 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{3840 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])} \operatorname{Sec}[c] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right)$$
$$\left(-9600 a^3 A b \operatorname{Sin}[c]-6400 a A b^3 \operatorname{Sin}[c]-6400 a^3 b C \operatorname{Sin}[c]-5120 a b^3 C \operatorname{Sin}[c]+1440 a^2 A b^2 \operatorname{Sin}[d x]+\right.$$
$$420 A b^4 \operatorname{Sin}[d x]+240 a^4 C \operatorname{Sin}[d x]+2520 a^2 b^2 C \operatorname{Sin}[d x]+990 b^4 C \operatorname{Sin}[d x]+1440 a^2 A b^2 \operatorname{Sin}[2 c+d x]+$$
$$420 A b^4 \operatorname{Sin}[2 c+d x]+240 a^4 C \operatorname{Sin}[2 c+d x]+2520 a^2 b^2 C \operatorname{Sin}[2 c+d x]+990 b^4 C \operatorname{Sin}[2 c+d x]+$$
$$9600 a^3 A b \operatorname{Sin}[c+2 d x]+7680 a A b^3 \operatorname{Sin}[c+2 d x]+7680 a^3 b C \operatorname{Sin}[c+2 d x]+7680 a b^3 C \operatorname{Sin}[c+2 d x]-$$
$$4800 a^3 A b \operatorname{Sin}[3 c+2 d x]-1920 a A b^3 \operatorname{Sin}[3 c+2 d x]-1920 a^3 b C \operatorname{Sin}[3 c+2 d x]+2160 a^2 A b^2 \operatorname{Sin}[2 c+3 d x]+$$
$$510 A b^4 \operatorname{Sin}[2 c+3 d x]+360 a^4 C \operatorname{Sin}[2 c+3 d x]+3060 a^2 b^2 C \operatorname{Sin}[2 c+3 d x]+425 b^4 C \operatorname{Sin}[2 c+3 d x]+$$
$$2160 a^2 A b^2 \operatorname{Sin}[4 c+3 d x]+510 A b^4 \operatorname{Sin}[4 c+3 d x]+360 a^4 C \operatorname{Sin}[4 c+3 d x]+3060 a^2 b^2 C \operatorname{Sin}[4 c+3 d x]+$$
$$425 b^4 C \operatorname{Sin}[4 c+3 d x]+4800 a^3 A b \operatorname{Sin}[3 c+4 d x]+3840 a A b^3 \operatorname{Sin}[3 c+4 d x]+3840 a^3 b C \operatorname{Sin}[3 c+4 d x]+$$
$$3072 a b^3 C \operatorname{Sin}[3 c+4 d x]-960 a^3 A b \operatorname{Sin}[5 c+4 d x]+720 a^2 A b^2 \operatorname{Sin}[4 c+5 d x]+90 A b^4 \operatorname{Sin}[4 c+5 d x]+$$
$$120 a^4 C \operatorname{Sin}[4 c+5 d x]+540 a^2 b^2 C \operatorname{Sin}[4 c+5 d x]+75 b^4 C \operatorname{Sin}[4 c+5 d x]+720 a^2 A b^2 \operatorname{Sin}[6 c+5 d x]+$$
$$90 A b^4 \operatorname{Sin}[6 c+5 d x]+120 a^4 C \operatorname{Sin}[6 c+5 d x]+540 a^2 b^2 C \operatorname{Sin}[6 c+5 d x]+75 b^4 C \operatorname{Sin}[6 c+5 d x]+$$
$$\left.960 a^3 A b \operatorname{Sin}[5 c+6 d x]+640 a A b^3 \operatorname{Sin}[5 c+6 d x]+640 a^3 b C \operatorname{Sin}[5 c+6 d x]+512 a b^3 C \operatorname{Sin}[5 c+6 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$a^4 A x+\frac{a b \left(8 a^2 A+4 A b^2+4 a^2 C+3 b^2 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{\left(130 a^2 A b^2+20 A b^4+6 a^4 C+83 a^2 b^2 C+16 b^4 C\right) \operatorname{Tan}[c+d x]}{30 d}+$$
$$\frac{a \left(40 A b^2+6 a^2 C+29 b^2 C\right) (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{30 d}+\frac{\left(5 A b^2+3 a^2 C+4 b^2 C\right) (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{15 d}+$$
$$\frac{a C (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Tan}[c+d x]}{5 d}+\frac{C (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Tan}[c+d x]}{5 d}$$

$$\frac{\left(-8 a^3 A b-4 a A b^3-4 a^3 b C-3 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{\left(8 a^3 A b+4 a A b^3+4 a^3 b C+3 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{1}{240 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+A \operatorname{Cos}[2 c+2 d x])}$$
$$\operatorname{Cos}[c+d x] \operatorname{Sec}[c] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(150 a^4 A d x \operatorname{Cos}[d x]+150 a^4 A d x \operatorname{Cos}[2 c+d x]+\right.$$
$$75 a^4 A d x \operatorname{Cos}[2 c+3 d x]+75 a^4 A d x \operatorname{Cos}[4 c+3 d x]+15 a^4 A d x \operatorname{Cos}[4 c+5 d x]+15 a^4 A d x \operatorname{Cos}[6 c+5 d x]+$$
$$1080 a^2 A b^2 \operatorname{Sin}[d x]+140 A b^4 \operatorname{Sin}[d x]+180 a^4 C \operatorname{Sin}[d x]+840 a^2 b^2 C \operatorname{Sin}[d x]+160 b^4 C \operatorname{Sin}[d x]-$$
$$720 a^2 A b^2 \operatorname{Sin}[2 c+d x]-60 A b^4 \operatorname{Sin}[2 c+d x]-120 a^4 C \operatorname{Sin}[2 c+d x]-360 a^2 b^2 C \operatorname{Sin}[2 c+d x]+120 a A b^3 \operatorname{Sin}[c+2 d x]+$$
$$120 a^3 b C \operatorname{Sin}[c+2 d x]+210 a b^3 C \operatorname{Sin}[c+2 d x]+120 a A b^3 \operatorname{Sin}[3 c+2 d x]+120 a^3 b C \operatorname{Sin}[3 c+2 d x]+$$
$$210 a b^3 C \operatorname{Sin}[3 c+2 d x]+720 a^2 A b^2 \operatorname{Sin}[2 c+3 d x]+100 A b^4 \operatorname{Sin}[2 c+3 d x]+120 a^4 C \operatorname{Sin}[2 c+3 d x]+$$
$$600 a^2 b^2 C \operatorname{Sin}[2 c+3 d x]+80 b^4 C \operatorname{Sin}[2 c+3 d x]-180 a^2 A b^2 \operatorname{Sin}[4 c+3 d x]-$$
$$30 a^4 C \operatorname{Sin}[4 c+3 d x]+60 a A b^3 \operatorname{Sin}[3 c+4 d x]+60 a^3 b C \operatorname{Sin}[3 c+4 d x]+45 a b^3 C \operatorname{Sin}[3 c+4 d x]+$$
$$60 a A b^3 \operatorname{Sin}[5 c+4 d x]+60 a^3 b C \operatorname{Sin}[5 c+4 d x]+45 a b^3 C \operatorname{Sin}[5 c+4 d x]+180 a^2 A b^2 \operatorname{Sin}[4 c+5 d x]+$$
$$\left.20 A b^4 \operatorname{Sin}[4 c+5 d x]+30 a^4 C \operatorname{Sin}[4 c+5 d x]+120 a^2 b^2 C \operatorname{Sin}[4 c+5 d x]+16 b^4 C \operatorname{Sin}[4 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x] (a+b \operatorname{Sec}[c+d x])^4 \left(A+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$4 a^3 A b x + \frac{\left(48 a^2 A b^2 + 4 A b^4 + 8 a^4 C + 24 a^2 b^2 C + 3 b^4 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{8 d} + \frac{A (a + b \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{d} - \frac{a b \left(24 a^2 A - 84 A b^2 - 50 a^2 C - 55 b^2 C\right) \text{Tan}[c + d x]}{24 d} - \frac{b \left(24 a^2 A - 12 A b^2 - 26 a^2 C - 9 b^2 C\right) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{24 d} - \frac{a b (12 A - 7 C) (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{12 d} - \frac{b (4 A - C) (a + b \text{Sec}[c + d x])^3 \text{Tan}[c + d x]}{4 d}$$

$$\left(\left(-48 a^2 A b^2 - 4 A b^4 - 8 a^4 C - 24 a^2 b^2 C - 3 b^4 C\right) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)\right) \Big/ \left(4 d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])\right) + \left(\left(48 a^2 A b^2 + 4 A b^4 + 8 a^4 C + 24 a^2 b^2 C + 3 b^4 C\right) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)\right) \Big/ \left(4 d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])\right) + \frac{1}{96 d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])} \text{Cos}[c + d x]^2 \text{Sec}[c] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \left(288 a^3 A b d x \text{Cos}[c] + 192 a^3 A b d x \text{Cos}[c + 2 d x] + 192 a^3 A b d x \text{Cos}[3 c + 2 d x] + 48 a^3 A b d x \text{Cos}[3 c + 4 d x] + 48 a^3 A b d x \text{Cos}[5 c + 4 d x] - 288 a A b^3 \text{Sin}[c] - 288 a^3 b C \text{Sin}[c] - 192 a b^3 C \text{Sin}[c] + 12 a^4 A \text{Sin}[d x] + 12 A b^4 \text{Sin}[d x] + 72 a^2 b^2 C \text{Sin}[d x] + 33 b^4 C \text{Sin}[d x] + 12 a^4 A \text{Sin}[2 c + d x] + 12 A b^4 \text{Sin}[2 c + d x] + 72 a^2 b^2 C \text{Sin}[2 c + d x] + 33 b^4 C \text{Sin}[2 c + d x] + 288 a A b^3 \text{Sin}[c + 2 d x] + 288 a^3 b C \text{Sin}[c + 2 d x] + 256 a b^3 C \text{Sin}[c + 2 d x] - 96 a A b^3 \text{Sin}[3 c + 2 d x] - 96 a^3 b C \text{Sin}[3 c + 2 d x] + 18 a^4 A \text{Sin}[2 c + 3 d x] + 12 A b^4 \text{Sin}[2 c + 3 d x] + 72 a^2 b^2 C \text{Sin}[2 c + 3 d x] + 9 b^4 C \text{Sin}[2 c + 3 d x] + 18 a^4 A \text{Sin}[4 c + 3 d x] + 12 A b^4 \text{Sin}[4 c + 3 d x] + 72 a^2 b^2 C \text{Sin}[4 c + 3 d x] + 9 b^4 C \text{Sin}[4 c + 3 d x] + 96 a A b^3 \text{Sin}[3 c + 4 d x] + 96 a^3 b C \text{Sin}[3 c + 4 d x] + 64 a b^3 C \text{Sin}[3 c + 4 d x] + 6 a^4 A \text{Sin}[4 c + 5 d x] + 6 a^4 A \text{Sin}[6 c + 5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^2 (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{2} a^2 \left(a^2 A + 12 A b^2 + 2 a^2 C\right) x + \frac{2 a b \left(2 A b^2 + 2 a^2 C + b^2 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{d} + \frac{2 A b (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{d} + \frac{A \text{Cos}[c + d x] (a + b \text{Sec}[c + d x])^4 \text{Sin}[c + d x]}{2 d} - \frac{b^2 \left(21 a^2 A - 6 A b^2 - 26 a^2 C - 4 b^2 C\right) \text{Tan}[c + d x]}{6 d} - \frac{a b^2 (9 A - 4 C) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{3 d} - \frac{b^2 (15 A - 2 C) (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{6 d} - \frac{4 \left(2 a A b^3 + 2 a^3 b C + a b^3 C\right) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] - \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])} + \frac{4 \left(2 a A b^3 + 2 a^3 b C + a b^3 C\right) \text{Cos}[c + d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2} + \frac{d x}{2}\right] + \text{Sin}\left[\frac{c}{2} + \frac{d x}{2}\right]\right] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right)}{d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])} + \frac{1}{96 d (b + a \text{Cos}[c + d x])^4 (A + 2 C + A \text{Cos}[2 c + 2 d x])} \text{Cos}[c + d x]^3 \text{Sec}[c] (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right) \left(36 a^4 A d x \text{Cos}[d x] + 432 a^2 A b^2 d x \text{Cos}[d x] + 72 a^4 C d x \text{Cos}[d x] + 36 a^4 A d x \text{Cos}[2 c + d x] + 432 a^2 A b^2 d x \text{Cos}[2 c + d x] + 72 a^4 C d x \text{Cos}[2 c + d x] + 12 a^4 A d x \text{Cos}[2 c + 3 d x] + 144 a^2 A b^2 d x \text{Cos}[2 c + 3 d x] + 24 a^4 C d x \text{Cos}[2 c + 3 d x] + 12 a^4 A d x \text{Cos}[4 c + 3 d x] + 144 a^2 A b^2 d x \text{Cos}[4 c + 3 d x] + 24 a^4 C d x \text{Cos}[4 c + 3 d x] + 6 a^4 A \text{Sin}[d x] + 96 A b^4 \text{Sin}[d x] + 576 a^2 b^2 C \text{Sin}[d x] + 96 b^4 C \text{Sin}[d x] + 6 a^4 A \text{Sin}[2 c + d x] - 48 A b^4 \text{Sin}[2 c + d x] - 288 a^2 b^2 C \text{Sin}[2 c + d x] + 96 a^3 A b \text{Sin}[c + 2 d x] + 96 a b^3 C \text{Sin}[c + 2 d x] + 96 a^3 A b \text{Sin}[3 c + 2 d x] + 96 a b^3 C \text{Sin}[3 c + 2 d x] + 9 a^4 A \text{Sin}[2 c + 3 d x] + 48 A b^4 \text{Sin}[2 c + 3 d x] + 288 a^2 b^2 C \text{Sin}[2 c + 3 d x] + 32 b^4 C \text{Sin}[2 c + 3 d x] + 9 a^4 A \text{Sin}[4 c + 3 d x] + 48 a^3 A b \text{Sin}[3 c + 4 d x] + 48 a^3 A b \text{Sin}[5 c + 4 d x] + 3 a^4 A \text{Sin}[4 c + 5 d x] + 3 a^4 A \text{Sin}[6 c + 5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^3 (a + b \text{Sec}[c + d x])^4 \left(A + C \text{Sec}[c + d x]^2\right), x, 7, 0\right\}$$

$$2 a b \left(a^2 A+2 A b^2+2 a^2 C\right) x+\frac{b^2 \left(2 A b^2+12 a^2 C+b^2 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{\left(2 a^2 A+6 A b^2+3 a^2 C\right) (a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{3 d}+\frac{2 A b \text{Cos}[c+d x] (a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{3 d}+\frac{A \text{Cos}[c+d x]^2 (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{3 d}-\frac{a b \left(4 a^2 A+26 A b^2+6 a^2 C-21 b^2 C\right) \text{Tan}[c+d x]}{6 d}-\frac{b \left(4 a^2 A+18 A b^2+6 a^2 C-3 b^2 C\right) (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{6 d}$$

$$\frac{1}{48 d (A+2 C+A \text{Cos}[2 (c+d x)])} \left(A+C \text{Sec}[c+d x]^2\right) \left(-48 b^2 \left(2 A b^2+\left(12 a^2+b^2\right) C\right) \text{Cos}[c+d x]^2 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]\right)+\text{Sec}[c] \left(96 a b \left(2 A b^2+a^2 (A+2 C)\right) d x \text{Cos}[c]+48 a b \left(2 A b^2+a^2 (A+2 C)\right) d x \text{Cos}[c+2 d x]+48 a^3 A b d x \text{Cos}[3 c+2 d x]+96 a A b^3 d x \text{Cos}[3 c+2 d x]+96 a^3 b C d x \text{Cos}[3 c+2 d x]-192 a b^3 C \text{Sin}[c]+10 a^4 A \text{Sin}[d x]+72 a^2 A b^2 \text{Sin}[d x]+12 a^4 C \text{Sin}[d x]+24 b^4 C \text{Sin}[d x]+10 a^4 A \text{Sin}[2 c+d x]+72 a^2 A b^2 \text{Sin}[2 c+d x]+12 a^4 C \text{Sin}[2 c+d x]+24 b^4 C \text{Sin}[2 c+d x]+24 a^3 A b \text{Sin}[c+2 d x]+192 a b^3 C \text{Sin}[c+2 d x]+24 a^3 A b \text{Sin}[3 c+2 d x]+11 a^4 A \text{Sin}[2 c+3 d x]+72 a^2 A b^2 \text{Sin}[2 c+3 d x]+12 a^4 C \text{Sin}[2 c+3 d x]+11 a^4 A \text{Sin}[4 c+3 d x]+72 a^2 A b^2 \text{Sin}[4 c+3 d x]+12 a^4 C \text{Sin}[4 c+3 d x]+12 a^3 A b \text{Sin}[3 c+4 d x]+12 a^3 A b \text{Sin}[5 c+4 d x]+a^4 A \text{Sin}[4 c+5 d x]+a^4 A \text{Sin}[6 c+5 d x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x]^4 (a+b \text{Sec}[c+d x])^4 \left(A+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{8} \left(3 a^4 A+24 a^2 A b^2+8 A b^4+4 a^4 C+48 a^2 b^2 C\right) x+\frac{4 a b^3 C \text{ArcTanh}[\text{Sin}[c+d x]]}{d}+\frac{b \left(23 a^2 A+12 A b^2+36 a^2 C\right) (a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{12 d}+\frac{\left(3 a^2 A+4 A b^2+4 a^2 C\right) \text{Cos}[c+d x] (a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{8 d}+\frac{A b \text{Cos}[c+d x]^2 (a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{3 d}+\frac{A \text{Cos}[c+d x]^3 (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{4 d}-\frac{b^2 \left(55 a^2 A+50 A b^2+84 a^2 C-24 b^2 C\right) \text{Tan}[c+d x]}{24 d}$$

$$\frac{1}{192 d (A+2 C+A \text{Cos}[2 (c+d x)])} \text{Cos}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right) \left(-1536 a b^3 C \text{Cos}[c+d x] \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]-\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right]+\text{Sin}\left[\frac{1}{2} (c+d x)\right]\right]\right)+\text{Sec}[c] \left(24 \left(8 A b^4+24 a^2 b^2 (A+2 C)+a^4 (3 A+4 C)\right) d x \text{Cos}[d x]+24 \left(8 A b^4+24 a^2 b^2 (A+2 C)+a^4 (3 A+4 C)\right) d x \text{Cos}[2 c+d x]+24 a^4 A \text{Sin}[d x]+144 a^2 A b^2 \text{Sin}[d x]+24 a^4 C \text{Sin}[d x]+384 b^4 C \text{Sin}[d x]+24 a^4 A \text{Sin}[2 c+d x]+144 a^2 A b^2 \text{Sin}[2 c+d x]+24 a^4 C \text{Sin}[2 c+d x]+320 a^3 A b \text{Sin}[c+2 d x]+384 a A b^3 \text{Sin}[c+2 d x]+384 a^3 b C \text{Sin}[c+2 d x]+320 a^3 A b \text{Sin}[3 c+2 d x]+384 a A b^3 \text{Sin}[3 c+2 d x]+384 a^3 b C \text{Sin}[3 c+2 d x]+27 a^4 A \text{Sin}[2 c+3 d x]+144 a^2 A b^2 \text{Sin}[2 c+3 d x]+24 a^4 C \text{Sin}[2 c+3 d x]+27 a^4 A \text{Sin}[4 c+3 d x]+144 a^2 A b^2 \text{Sin}[4 c+3 d x]+24 a^4 C \text{Sin}[4 c+3 d x]+32 a^3 A b \text{Sin}[3 c+4 d x]+32 a^3 A b \text{Sin}[5 c+4 d x]+3 a^4 A \text{Sin}[4 c+5 d x]+3 a^4 A \text{Sin}[6 c+5 d x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \text{Sec}[c+d x])^3 \left(a^2-b^2 \text{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$a^5 x+\frac{b \left(24 a^4-8 a^2 b^2-3 b^4\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{8 d}+\frac{a b^2 \left(18 a^2-13 b^2\right) \text{Tan}[c+d x]}{8 d}+\frac{b^2 \left(2 a^2-3 b^2\right) (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{8 d}-\frac{a b^2 (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{4 d}-\frac{b^2 (a+b \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{4 d}$$

$$\frac{1}{64\,d\,(b-a\,\mathrm{Cos}[c+d\,x])\,(b+a\,\mathrm{Cos}[c+d\,x])^4}\mathrm{Cos}[c+d\,x]\,(a-b\,\mathrm{Sec}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4\Big(-8\,b\,\left(-24\,a^4+8\,a^2\,b^2+3\,b^4\right)\mathrm{Cos}[c+d\,x]^4$$
$$\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$\mathrm{Sec}[c]\,\big(24\,a^5\,d\,x\,\mathrm{Cos}[c]+16\,a^5\,d\,x\,\mathrm{Cos}[c+2\,d\,x]+16\,a^5\,d\,x\,\mathrm{Cos}[3\,c+2\,d\,x]+4\,a^5\,d\,x\,\mathrm{Cos}[3\,c+4\,d\,x]+$$
$$4\,a^5\,d\,x\,\mathrm{Cos}[5\,c+4\,d\,x]-48\,a^3\,b^2\,\mathrm{Sin}[c]+48\,a\,b^4\,\mathrm{Sin}[c]-8\,a^2\,b^3\,\mathrm{Sin}[d\,x]-11\,b^5\,\mathrm{Sin}[d\,x]-8\,a^2\,b^3\,\mathrm{Sin}[2\,c+d\,x]-$$
$$11\,b^5\,\mathrm{Sin}[2\,c+d\,x]+48\,a^3\,b^2\,\mathrm{Sin}[c+2\,d\,x]-64\,a\,b^4\,\mathrm{Sin}[c+2\,d\,x]-16\,a^3\,b^2\,\mathrm{Sin}[3\,c+2\,d\,x]-8\,a^2\,b^3\,\mathrm{Sin}[2\,c+3\,d\,x]-$$
$$3\,b^5\,\mathrm{Sin}[2\,c+3\,d\,x]-8\,a^2\,b^3\,\mathrm{Sin}[4\,c+3\,d\,x]-3\,b^5\,\mathrm{Sin}[4\,c+3\,d\,x]+16\,a^3\,b^2\,\mathrm{Sin}[3\,c+4\,d\,x]-16\,a\,b^4\,\mathrm{Sin}[3\,c+4\,d\,x]\big)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\mathrm{Sec}[c+d\,x])\,\left(a^2-b^2\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$a^3\,x+\frac{b\,\left(2\,a^2-b^2\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}-\frac{a\,b^2\,\mathrm{Tan}[c+d\,x]}{2\,d}-\frac{b^2\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4}\left(4\,a^3\,x+\frac{2\,b\,\left(-2\,a^2+b^2\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\right.$$
$$\frac{4\,a^2\,b\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}-\frac{2\,b^3\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}-$$
$$\left.\frac{b^3}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{b^3}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{4\,a\,b^2\,\mathrm{Tan}[c+d\,x]}{d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+b\,\mathrm{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$-\frac{a\,\left(2\,A\,b^2+2\,a^2\,C+b^2\,C\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,b^4\,d}-\frac{2\,a^2\,\left(A\,b^2+a^2\,C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\,\sqrt{a^2-b^2}\,d}+$$
$$\frac{\left(3\,A\,b^2+3\,a^2\,C+2\,b^2\,C\right)\mathrm{Tan}[c+d\,x]}{3\,b^3\,d}-\frac{a\,C\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{2\,b^2\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,b\,d}$$

$$\frac{1}{6 b^4 d (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])}$$

$$\operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(6 a \left(2 A b^2+\left(2 a^2+b^2\right) C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\right.$$

$$6 a \left(2 A b^2+\left(2 a^2+b^2\right) C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-$$

$$\frac{24 i a^2 \left(A b^2+a^2 C\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\frac{2 b^3 C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^3}+\frac{b^2 C \left((-3 a+b) \operatorname{Cos}\left[\frac{c}{2}\right]+(3 a+b) \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}+$$

$$\frac{4 b \left(3 A b^2+3 a^2 C+2 b^2 C\right) \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}+\frac{2 b^3 C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^3}+$$

$$\left.\frac{b^2 C \left((3 a-b) \operatorname{Cos}\left[\frac{c}{2}\right]+(3 a+b) \operatorname{Sin}\left[\frac{c}{2}\right]\right)}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}+\frac{4 b \left(3 A b^2+3 a^2 C+2 b^2 C\right) \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]^2 \left(A+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 6, 0\right\}$$

$$\frac{\left(2 A b^2+2 a^2 C+b^2 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 b^3 d}+$$

$$\frac{2 a \left(A b^2+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3 \sqrt{a^2-b^2} d}-\frac{a C \operatorname{Tan}[c+d x]}{b^2 d}+\frac{C \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{2 b d}$$

$$\frac{1}{2 b^3 d (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])}$$

$$\operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(-2 \left(2 A b^2+\left(2 a^2+b^2\right) C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+\right.$$

$$2 \left(2 A b^2+\left(2 a^2+b^2\right) C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$

$$\frac{8 a \left(A b^2+a^2 C\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\frac{b^2 C}{\left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}-\frac{4 a b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}-$$

$$\left.\frac{b^2 C}{\left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}-\frac{4 a b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x] \left(A+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 5, 0\right\}$$

$$-\frac{a C \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{b^2 d}-\frac{2 \left(A b^2+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^2 \sqrt{a^2-b^2} d}+\frac{C \operatorname{Tan}[c+d x]}{b d}$$

$$\left(2 \operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\right.$$

$$\frac{2 i \left(A b^2+a^2 C\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\left.\left.\frac{b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}+\frac{b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)\right) \Big/$$

$$\left(b^2 d (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{a+b\,\mathrm{Sec}[c+d\,x]},\ x,\ 4,\ 0\right\}$$

$$\frac{A\,x}{a}+\frac{C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{b\,d}+\frac{2\left(A\,b^2+a^2\,C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a\,b\,\sqrt{a^2-b^2}\,d}$$

$$\Bigg(2\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\sqrt{a^2-b^2}\,\left(A\,b\,d\,x-a\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+a\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]\right)$$

$$\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}+$$

$$2\left(A\,b^2+a^2\,C\right)\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right](i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right](i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\Bigg)\Bigg)\Big/$$

$$\left(a\,b\,\sqrt{a^2-b^2}\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+b\,\mathrm{Sec}[c+d\,x]},\ x,\ 4,\ 0\right\}$$

$$-\frac{A\,b\,x}{a^2}-\frac{2\left(A\,b^2+a^2\,C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^2\,\sqrt{a^2-b^2}\,d}+\frac{A\,\mathrm{Sin}[c+d\,x]}{a\,d}$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]$$

$$\Bigg(-2\,i\left(A\,b^2+a^2\,C\right)\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right](i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right](\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])+$$

$$A\,\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}\,(-b\,d\,x+a\,\mathrm{Sin}[c+d\,x])\Bigg)\Bigg)\Big/\left(a^2\,\sqrt{a^2-b^2}\,d\,(a+b\,\mathrm{Sec}[c+d\,x])\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^4\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{a+b\,\mathrm{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$\frac{\left(3\,a^4\,A+4\,a^2\,A\,b^2+8\,A\,b^4+4\,a^4\,C+8\,a^2\,b^2\,C\right)x}{8\,a^5}+$$

$$\frac{2\,b^3\left(A\,b^2+a^2\,C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5\,\sqrt{a^2-b^2}\,d}-\frac{b\left(2\,a^2\,A+3\,A\,b^2+3\,a^2\,C\right)\mathrm{Sin}[c+d\,x]}{3\,a^4\,d}+$$

$$\frac{\left(3\,a^2\,A+4\,A\,b^2+4\,a^2\,C\right)\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{8\,a^3\,d}-\frac{A\,b\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Sin}[c+d\,x]}{4\,a\,d}$$

$$\frac{1}{48 a^5 (A+2C+A\operatorname{Cos}[2(c+dx)])(a+b\operatorname{Sec}[c+dx])}\operatorname{Cos}[c+dx](b+a\operatorname{Cos}[c+dx])\left(A+C\operatorname{Sec}[c+dx]^2\right)$$

$$\left(12\left(8Ab^4+4a^2b^2(A+2C)+a^4(3A+4C)\right)x-\frac{24ab\left(4Ab^2+a^2(3A+4C)\right)\operatorname{Cos}[dx]\operatorname{Sin}[c]}{d}+\right.$$

$$\frac{192b^3\left(Ab^2+a^2C\right)\operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{dx}{2}\right](i\operatorname{Cos}[c]+\operatorname{Sin}[c])\left(-b\operatorname{Sin}\left[\frac{dx}{2}\right]+a\operatorname{Sin}\left[c+\frac{dx}{2}\right]\right)}{\sqrt{a^2-b^2}\sqrt{(\operatorname{Cos}[c]-i\operatorname{Sin}[c])^2}}\right](i\operatorname{Cos}[c]+\operatorname{Sin}[c])}{\sqrt{a^2-b^2}\,d\sqrt{(\operatorname{Cos}[c]-i\operatorname{Sin}[c])^2}}+$$

$$\frac{24a^2\left(Ab^2+a^2(A+C)\right)\operatorname{Cos}[2dx]\operatorname{Sin}[2c]}{d}-\frac{8a^3Ab\operatorname{Cos}[3dx]\operatorname{Sin}[3c]}{d}+$$

$$\frac{3a^4A\operatorname{Cos}[4dx]\operatorname{Sin}[4c]}{d}-\frac{24ab\left(4Ab^2+a^2(3A+4C)\right)\operatorname{Cos}[c]\operatorname{Sin}[dx]}{d}+$$

$$\left.\frac{24a^2\left(Ab^2+a^2(A+C)\right)\operatorname{Cos}[2c]\operatorname{Sin}[2dx]}{d}-\frac{8a^3Ab\operatorname{Cos}[3c]\operatorname{Sin}[3dx]}{d}+\frac{3a^4A\operatorname{Cos}[4c]\operatorname{Sin}[4dx]}{d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+dx]^3\left(A+C\operatorname{Sec}[c+dx]^2\right)}{(a+b\operatorname{Sec}[c+dx])^2},\ x,\ 7,\ 0\right\}$$

$$\frac{\left(2Ab^2+6a^2C+b^2C\right)\operatorname{ArcTanh}[\operatorname{Sin}[c+dx]]}{2b^4d}+\frac{2a\left(a^2Ab^2-2Ab^4+3a^4C-4a^2b^2C\right)\operatorname{ArcTanh}\left[\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\left(a^2-b^2\right)^{3/2}d}-$$

$$\frac{a\left(Ab^2+3a^2C-2b^2C\right)\operatorname{Tan}[c+dx]}{b^3\left(a^2-b^2\right)d}+\frac{\left(2Ab^2+3a^2C-b^2C\right)\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]}{2b^2\left(a^2-b^2\right)d}-\frac{\left(Ab^2+a^2C\right)\operatorname{Sec}[c+dx]^2\operatorname{Tan}[c+dx]}{b\left(a^2-b^2\right)d(a+b\operatorname{Sec}[c+dx])}$$

$$\frac{\left(-2 A b^2-6 a^2 C-b^2 C\right) (b+a \text{Cos}[c+d x])^2 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \left(A+C \text{Sec}[c+d x]^2\right)}{b^4 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(2 A b^2+6 a^2 C+b^2 C\right) (b+a \text{Cos}[c+d x])^2 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \left(A+C \text{Sec}[c+d x]^2\right)}{b^4 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2}+$$

$$\left(\left(-a^2 A b^2+2 A b^4-3 a^4 C+4 a^2 b^2 C\right) (b+a \text{Cos}[c+d x])^2 \left(A+C \text{Sec}[c+d x]^2\right)\right.$$

$$\left(\frac{4 i a \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Cos}[c]}{b^4 \sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}+\right.$$

$$\left.\left.\frac{4 a \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Sin}[c]}{b^4 \sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right)\right) \Big/$$

$$\left(\left(-a^2+b^2\right) (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2\right)-$$

$$\frac{2 (b+a \text{Cos}[c+d x]) \text{Sec}[c] \left(A+C \text{Sec}[c+d x]^2\right) \left(a A b^3 \text{Sin}[c]+a^3 b C \text{Sin}[c]-a^2 A b^2 \text{Sin}[d x]-a^4 C \text{Sin}[d x]\right)}{b^3 \left(-a^2+b^2\right) d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{C (b+a \text{Cos}[c+d x])^2 \left(A+C \text{Sec}[c+d x]^2\right)}{2 b^2 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2 \left(\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}-$$

$$\frac{4 a C (b+a \text{Cos}[c+d x])^2 \left(A+C \text{Sec}[c+d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{b^3 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2 \left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}-$$

$$\frac{C (b+a \text{Cos}[c+d x])^2 \left(A+C \text{Sec}[c+d x]^2\right)}{2 b^2 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2 \left(\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}-$$

$$\frac{4 a C (b+a \text{Cos}[c+d x])^2 \left(A+C \text{Sec}[c+d x]^2\right) \text{Sin}\left[\frac{d x}{2}\right]}{b^3 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^2 \left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right) \left(\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^2 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^2}, x, 6, 0\right\}$$

$$-\frac{2 a C \text{ArcTanh}[\text{Sin}[c+d x]]}{b^3 d}+\frac{2 \left(A b^4-2 a^4 C+3 a^2 b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3 \left(a^2-b^2\right)^{3/2} d}+$$

$$\frac{\left(A b^2+2 a^2 C-b^2 C\right) \text{Tan}[c+d x]}{b^2 \left(a^2-b^2\right) d}-\frac{\left(A b^2+a^2 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{b^3 d\,(A+2C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])^2}$$

$$2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(2\,a\,C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.$$

$$2\,a\,C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\frac{2\,\left(A\,b^4-2\,a^4\,C+3\,a^2\,b^2\,C\right)\,\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\,\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])}{\left(a^2-b^2\right)^{3/2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}+$$

$$\frac{b\,\left(A\,b^2+a^2\,C\right)\,\mathrm{Sec}[c]\,(b\,\mathrm{Sin}[c]-a\,\mathrm{Sin}[d\,x])}{-a^2+b^2}+\frac{b\,C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+$$

$$\left.\frac{b\,C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$\frac{C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{b^2\,d}-\frac{2\,a\,\left(A\,b^2-a^2\,C+2\,b^2\,C\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^2\,\left(a^2-b^2\right)^{3/2}\,d}-\frac{\left(A\,b^2+a^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.\right.$$

$$C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\frac{2\,a\,\left(-A\,b^2+\left(a^2-2\,b^2\right)\,C\right)\,\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\,\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])}{\left(a^2-b^2\right)^{3/2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}+$$

$$\left.\left.\frac{b\,\left(A\,b^2+a^2\,C\right)\,\mathrm{Sec}[c]\,(b\,\mathrm{Sin}[c]-a\,\mathrm{Sin}[d\,x])}{a^3-a\,b^2}\right)\right)\Big/\left(b^2\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,3,\,0\right\}$$

$$\frac{A x}{a^2}+\frac{2 b \left(2 a^2 A-A b^2+a^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^2 \left(a^2-b^2\right)^{3/2} d}+\frac{\left(A b^2+a^2 C\right) \text{Tan}[c+d x]}{a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])}$$

$$\left(2 (b+a \text{Cos}[c+d x]) \left(A+C \text{Sec}[c+d x]^2\right) \left(A x (b+a \text{Cos}[c+d x])+\frac{2 b \left(-A b^2+a^2 (2 A+C)\right) \text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d x}{2}\right] (i \text{Cos}[c]+\text{Sin}[c]) \left(-b \text{Sin}\left[\frac{d x}{2}\right]+a \text{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}\right] (b+a \text{Cos}[c+d x]) (i \text{Cos}[c]+\text{Sin}[c])}{\left(a^2-b^2\right)^{3/2} d \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}+\frac{\left(A b^2+a^2 C\right) \text{Sec}[c] (-b \text{Sin}[c]+a \text{Sin}[d x])}{\left(a^2-b^2\right) d}\right)\right) \Big/ \left(a^2 (A+2 C+A \text{Cos}[2 (c+d x)]) (a+b \text{Sec}[c+d x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^2}, x, 5, 0\right\}$$

$$-\frac{2 A b x}{a^3}-\frac{2 \left(3 a^2 A b^2-2 A b^4+a^4 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3 \left(a^2-b^2\right)^{3/2} d}+\frac{\left(a^2 A-2 A b^2-a^2 C\right) \text{Sin}[c+d x]}{a^2 \left(a^2-b^2\right) d}+\frac{\left(A b^2+a^2 C\right) \text{Sin}[c+d x]}{a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])}$$

$$\left(2 (b+a \text{Cos}[c+d x]) \text{Sec}[c+d x] (A \text{Cos}[c+d x]+C \text{Sec}[c+d x]) \left(-2 A b x (b+a \text{Cos}[c+d x])-\frac{2 i \left(3 a^2 A b^2-2 A b^4+a^4 C\right) \text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d x}{2}\right] (i \text{Cos}[c]+\text{Sin}[c]) \left(-b \text{Sin}\left[\frac{d x}{2}\right]+a \text{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}\right] (b+a \text{Cos}[c+d x]) (\text{Cos}[c]-i \text{Sin}[c])}{\left(a^2-b^2\right)^{3/2} d \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}+\frac{a A \text{Cos}[d x] (b+a \text{Cos}[c+d x]) \text{Sin}[c]}{d}+\frac{a A \text{Cos}[c] (b+a \text{Cos}[c+d x]) \text{Sin}[d x]}{d}+\frac{b \left(A b^2+a^2 C\right) \text{Sec}[c] (b \text{Sin}[c]-a \text{Sin}[d x])}{\left(a^2-b^2\right) d}\right)\right) \Big/ \left(a^3 (A+2 C+A \text{Cos}[2 (c+d x)]) (a+b \text{Sec}[c+d x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3}, x, 8, 0\right\}$$

$$\frac{\left(2 A b^2+12 a^2 C+b^2 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 b^5 d}+$$

$$\frac{a \left(2 a^4 A b^2-5 a^2 A b^4+6 A b^6+12 a^6 C-29 a^4 b^2 C+20 a^2 b^4 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^5 \left(a^2-b^2\right)^{5/2} d}-$$

$$\frac{a \left(2 a^2 A b^2-5 A b^4+12 a^4 C-21 a^2 b^2 C+6 b^4 C\right) \text{Tan}[c+d x]}{2 b^4 \left(a^2-b^2\right)^2 d}+\frac{\left(a^2 A b^2-4 A b^4+6 a^4 C-10 a^2 b^2 C+b^4 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 b^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(A b^2+a^2 C\right) \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(3 A b^4-4 a^4 C+7 a^2 b^2 C\right) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{2 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{\left(-2 A b^2-12 a^2 C-b^2 C\right) (b+a \text{Cos}[c+d x])^3 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \text{Sec}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right)}{b^5 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^3}+$$

$$\frac{\left(2 A b^2+12 a^2 C+b^2 C\right) (b+a \text{Cos}[c+d x])^3 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \text{Sec}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right)}{b^5 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^3}+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^3}$$

$$\left(2 a^4 A b^2-5 a^2 A b^4+6 A b^6+12 a^6 C-29 a^4 b^2 C+20 a^2 b^4 C\right) (b+a \text{Cos}[c+d x])^3 \text{Sec}[c+d x] \left(A+C \text{Sec}[c+d x]^2\right)$$

$$\left(\frac{2 i a \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Cos}[c]}{b^5 \sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}+\right.$$

$$\left.\frac{2 a \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Sin}[c]}{b^5 \sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right)+$$

$$\frac{1}{8 b^4 \left(-a^2+b^2\right)^2 d (A+2 C+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^3} (b+a \text{Cos}[c+d x]) \text{Sec}[c] \text{Sec}[c+d x]^3 \left(A+C \text{Sec}[c+d x]^2\right)$$

$$\left(6 a^5 A b^2 \text{Sin}[c]-7 a^3 A b^4 \text{Sin}[c]-20 a A b^6 \text{Sin}[c]+36 a^7 C \text{Sin}[c]-15 a^5 b^2 C \text{Sin}[c]-66 a^3 b^4 C \text{Sin}[c]+24 a b^6 C \text{Sin}[c]-\right.$$
$$15 a^4 A b^3 \text{Sin}[d x]+36 a^2 A b^5 \text{Sin}[d x]-90 a^6 b C \text{Sin}[d x]+162 a^4 b^3 C \text{Sin}[d x]-55 a^2 b^5 C \text{Sin}[d x]+4 b^7 C \text{Sin}[d x]+$$
$$9 a^4 A b^3 \text{Sin}[2 c+d x]-24 a^2 A b^5 \text{Sin}[2 c+d x]+54 a^6 b C \text{Sin}[2 c+d x]-90 a^4 b^3 C \text{Sin}[2 c+d x]+17 a^2 b^5 C \text{Sin}[2 c+d x]+$$
$$4 b^7 C \text{Sin}[2 c+d x]-6 a^5 A b^2 \text{Sin}[c+2 d x]+11 a^3 A b^4 \text{Sin}[c+2 d x]+10 a A b^6 \text{Sin}[c+2 d x]-36 a^7 C \text{Sin}[c+2 d x]+$$
$$31 a^5 b^2 C \text{Sin}[c+2 d x]+40 a^3 b^4 C \text{Sin}[c+2 d x]-20 a b^6 C \text{Sin}[c+2 d x]+2 a^5 A b^2 \text{Sin}[3 c+2 d x]-a^3 A b^4 \text{Sin}[3 c+2 d x]-$$
$$10 a A b^6 \text{Sin}[3 c+2 d x]+12 a^7 C \text{Sin}[3 c+2 d x]-5 a^5 b^2 C \text{Sin}[3 c+2 d x]-20 a^3 b^4 C \text{Sin}[3 c+2 d x]+$$
$$4 a b^6 C \text{Sin}[3 c+2 d x]-7 a^4 A b^3 \text{Sin}[2 c+3 d x]+16 a^2 A b^5 \text{Sin}[2 c+3 d x]-42 a^6 b C \text{Sin}[2 c+3 d x]+$$
$$74 a^4 b^3 C \text{Sin}[2 c+3 d x]-23 a^2 b^5 C \text{Sin}[2 c+3 d x]+a^4 A b^3 \text{Sin}[4 c+3 d x]-4 a^2 A b^5 \text{Sin}[4 c+3 d x]+$$
$$6 a^6 b C \text{Sin}[4 c+3 d x]-10 a^4 b^3 C \text{Sin}[4 c+3 d x]+a^2 b^5 C \text{Sin}[4 c+3 d x]-2 a^5 A b^2 \text{Sin}[3 c+4 d x]+$$
$$\left.5 a^3 A b^4 \text{Sin}[3 c+4 d x]-12 a^7 C \text{Sin}[3 c+4 d x]+21 a^5 b^2 C \text{Sin}[3 c+4 d x]-6 a^3 b^4 C \text{Sin}[3 c+4 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^3 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3}, x, 7, 0\right\}$$

$$-\frac{3\,a\,C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{b^4\,d}-\frac{\left(a^2\,A\,b^4+2\,A\,b^6+6\,a^6\,C-15\,a^4\,b^2\,C+12\,a^2\,b^4\,C\right)\,\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\,\left(a^2-b^2\right)^{5/2}\,d}-$$

$$\frac{\left(3\,A\,b^4-6\,a^4\,C+11\,a^2\,b^2\,C-2\,b^4\,C\right)\,\text{Tan}[c+d\,x]}{2\,b^3\,\left(a^2-b^2\right)^2\,d}-\frac{\left(A\,b^2+a^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\frac{\left(a^2\,A\,b^2+2\,A\,b^4-3\,a^4\,C+6\,a^2\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{4\,b^4\,d\,(A+2\,C+A\,\text{Cos}[2\,(c+d\,x)])\,(a+b\,\text{Sec}[c+d\,x])^3}$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\left(24\,a\,C\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.$$

$$24\,a\,C\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$

$$\left(8\,i\,\left(2\,A\,b^6+6\,a^6\,C-15\,a^4\,b^2\,C+a^2\,b^4\,(A+12\,C)\right)\,\text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\text{Cos}[c]+\text{Sin}[c])\,\left(-b\,\text{Sin}\left[\frac{d\,x}{2}\right]+a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\text{Cos}[c]-i\,\text{Sin}[c])^2}}\right]\right.$$

$$\left.(b+a\,\text{Cos}[c+d\,x])^2\,(\text{Cos}[c]-i\,\text{Sin}[c])\right)\Big/\left(\left(a^2-b^2\right)^{5/2}\,\sqrt{(\text{Cos}[c]-i\,\text{Sin}[c])^2}\right)+\frac{1}{\left(a^2-b^2\right)^2}\,b\,\text{Sec}[c]\,\text{Sec}[c+d\,x]$$

$$\left(-4\,a\,b\,\left(-3\,A\,b^4+\left(6\,a^4-11\,a^2\,b^2+2\,b^4\right)\,C\right)\,\text{Sin}[c]+2\,\left(6\,a^6\,C-3\,a^4\,b^2\,C+b^6\,(-3\,A+4\,C)-a^2\,b^4\,(3\,A+13\,C)\right)\,\text{Sin}[d\,x]+\right.$$

$$3\,a^2\,A\,b^4\,\text{Sin}[2\,c+d\,x]+6\,A\,b^6\,\text{Sin}[2\,c+d\,x]-6\,a^6\,C\,\text{Sin}[2\,c+d\,x]+3\,a^4\,b^2\,C\,\text{Sin}[2\,c+d\,x]+12\,a^2\,b^4\,C\,\text{Sin}[2\,c+d\,x]+$$

$$a^3\,A\,b^3\,\text{Sin}[c+2\,d\,x]-10\,a\,A\,b^5\,\text{Sin}[c+2\,d\,x]+21\,a^5\,b\,C\,\text{Sin}[c+2\,d\,x]-38\,a^3\,b^3\,C\,\text{Sin}[c+2\,d\,x]+8\,a\,b^5\,C\,\text{Sin}[c+2\,d\,x]+$$

$$a^3\,A\,b^3\,\text{Sin}[3\,c+2\,d\,x]+2\,a\,A\,b^5\,\text{Sin}[3\,c+2\,d\,x]-3\,a^5\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+6\,a^3\,b^3\,C\,\text{Sin}[3\,c+2\,d\,x]-$$

$$\left.\left.3\,a^2\,A\,b^4\,\text{Sin}[2\,c+3\,d\,x]+6\,a^6\,C\,\text{Sin}[2\,c+3\,d\,x]-11\,a^4\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]+2\,a^2\,b^4\,C\,\text{Sin}[2\,c+3\,d\,x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^3},\,x,\,6,\,0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{b^3\,d}+\frac{a\,\left(3\,A\,b^4+2\,a^4\,C-5\,a^2\,b^2\,C+6\,b^4\,C\right)\,\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3\,\left(a^2-b^2\right)^{5/2}\,d}-$$

$$\frac{\left(A\,b^2+a^2\,C\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{\left(2\,a^2\,A\,b^2+A\,b^4-2\,a^4\,C+5\,a^2\,b^2\,C\right)\,\text{Tan}[c+d\,x]}{2\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{2 b^3 d (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])^3}$$

$$(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x] \left(A+C \operatorname{Sec}[c+d x]^2\right) \left(-4 C (b+a \operatorname{Cos}[c+d x])^2 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+\right.$$

$$4 C (b+a \operatorname{Cos}[c+d x])^2 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$

$$\frac{4 a \left(3 A b^4+\left(2 a^4-5 a^2 b^2+6 b^4\right) C\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (b+a \operatorname{Cos}[c+d x])^2 (i \operatorname{Cos}[c]+\operatorname{Sin}[c])}{\left(a^2-b^2\right)^{5/2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}$$

$$+\frac{1}{a \left(a^2-b^2\right)^2} b \operatorname{Sec}[c] \left(\left(a^2+2 b^2\right) \left(-A b^4+2 a^4 C-a^2 b^2 (2 A+5 C)\right) \operatorname{Sin}[c]+a \left(\left(4 A b^5-7 a^4 b C+a^2 b^3 (5 A+16 C)\right)\right.\right.$$

$$\left.\left.\left.\operatorname{Sin}[d x]+a \left(a b \left(-3 A b^2+\left(a^2-4 b^2\right) C\right) \operatorname{Sin}[2 c+d x]+\left(A b^4-2 a^4 C+a^2 b^2 (2 A+5 C)\right) \operatorname{Sin}[c+2 d x]\right)\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x] \left(A+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^3}, x, 5, 0\right\}$$

$$-\frac{\left(2 a^2 A+A b^2+a^2 C+2 b^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\left(a^2-b^2\right)^{5/2} d}-\frac{\left(A b^2+a^2 C\right) \operatorname{Tan}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \operatorname{Sec}[c+d x])^2}-\frac{a \left(3 A b^2-a^2 C+4 b^2 C\right) \operatorname{Tan}[c+d x]}{2 b \left(a^2-b^2\right)^2 d (a+b \operatorname{Sec}[c+d x])}$$

$$\left(\left(b+a \operatorname{Cos}[c+d x]\right) \operatorname{Sec}[c+d x] \left(A+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(-\frac{4 i \left(a^2 (2 A+C)+b^2 (A+2 C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (b+a \operatorname{Cos}[c+d x])^2 (\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+\right.$$

$$\frac{1}{a^2} \operatorname{Sec}[c] \left(b \left(a^2+2 b^2\right) \left(-A b^2+a^2 (4 A+3 C)\right) \operatorname{Sin}[c]+a \left(\left(2 A b^4+a^4 C-a^2 b^2 (11 A+10 C)\right) \operatorname{Sin}[d x]+\right.\right.$$

$$\left.\left.\left.\left.\left(-2 A b^4+a^4 C+a^2 b^2 (5 A+2 C)\right) \operatorname{Sin}[2 c+d x]+a b \left(A b^2-a^2 (4 A+3 C)\right) \operatorname{Sin}[c+2 d x]\right)\right)\right)\right) \Big/$$

$$\left(2 \left(a^2-b^2\right)^2 d (A+2 C+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C \operatorname{Sec}[c+d x]^2}{(a+b \operatorname{Sec}[c+d x])^3}, x, 4, 0\right\}$$

$$\frac{A x}{a^3}+\frac{b\left(6 a^4 A-5 a^2 A b^2+2 A b^4+3 a^4 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3\left(a^2-b^2\right)^{5/2} d}+$$

$$\frac{\left(A b^2+a^2 C\right) \text{Tan}[c+d x]}{2 a\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(5 a^2 A b^2-2 A b^4+a^4 C+2 a^2 b^2 C\right) \text{Tan}[c+d x]}{2 a^2\left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{2 a^3 d (A+2 C+A \text{Cos}[2 (c+d x)]) (a+b \text{Sec}[c+d x])^3}(b+a \text{Cos}[c+d x]) \text{Sec}[c+d x]\left(A+C \text{Sec}[c+d x]^2\right)$$

$$\left(\left(4 b\left(-5 a^2 A b^2+2 A b^4+3 a^4 (2 A+C)\right) \text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d x}{2}\right] (i \text{Cos}[c]+\text{Sin}[c])\left(-b \text{Sin}\left[\frac{d x}{2}\right]+a \text{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2}\sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}\right]\right.\right.$$

$$\left.(b+a \text{Cos}[c+d x])^2 (i \text{Cos}[c]+\text{Sin}[c])\right)\Big/\left(\left(a^2-b^2\right)^{5/2}\sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}\right)+$$

$$\frac{1}{\left(a^2-b^2\right)^2}\text{Sec}[c]\left(2 A\left(a^2-b^2\right)^2\left(a^2+2 b^2\right) d x \text{Cos}[c]+4 a A b\left(a^2-b^2\right)^2 d x \text{Cos}[d x]+4 a^5 A b d x \text{Cos}[2 c+d x]-\right.$$

$$8 a^3 A b^3 d x \text{Cos}[2 c+d x]+4 a A b^5 d x \text{Cos}[2 c+d x]+a^6 A d x \text{Cos}[c+2 d x]-2 a^4 A b^2 d x \text{Cos}[c+2 d x]+$$
$$a^2 A b^4 d x \text{Cos}[c+2 d x]+a^6 A d x \text{Cos}[3 c+2 d x]-2 a^4 A b^2 d x \text{Cos}[3 c+2 d x]+a^2 A b^4 d x \text{Cos}[3 c+2 d x]-$$
$$6 a^4 A b^2 \text{Sin}[c]-9 a^2 A b^4 \text{Sin}[c]+6 A b^6 \text{Sin}[c]-2 a^6 C \text{Sin}[c]-5 a^4 b^2 C \text{Sin}[c]-2 a^2 b^4 C \text{Sin}[c]+17 a^3 A b^3 \text{Sin}[d x]-$$
$$8 a A b^5 \text{Sin}[d x]+5 a^5 b C \text{Sin}[d x]+4 a^3 b^3 C \text{Sin}[d x]-7 a^3 A b^3 \text{Sin}[2 c+d x]+4 a A b^5 \text{Sin}[2 c+d x]-$$

$$\left.3 a^5 b C \text{Sin}[2 c+d x]+6 a^4 A b^2 \text{Sin}[c+2 d x]-3 a^2 A b^4 \text{Sin}[c+2 d x]+2 a^6 C \text{Sin}[c+2 d x]+a^4 b^2 C \text{Sin}[c+2 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3}, x, 6, 0\right\}$$

$$-\frac{3 A b x}{a^4}-\frac{\left(12 a^4 A b^2-15 a^2 A b^4+6 A b^6+2 a^6 C+a^4 b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4\left(a^2-b^2\right)^{5/2} d}+$$

$$\frac{\left(2 a^4 A-11 a^2 A b^2+6 A b^4-3 a^4 C\right) \text{Sin}[c+d x]}{2 a^3\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(A b^2+a^2 C\right) \text{Sin}[c+d x]}{2 a\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(6 a^2 A b^2-3 A b^4+2 a^4 C+a^2 b^2 C\right) \text{Sin}[c+d x]}{2 a^2\left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{4 a^4 d (A+2 C+A \text{Cos}[2 (c+d x)]) (a+b \text{Sec}[c+d x])^3} (b+a \text{Cos}[c+d x]) \text{Sec}[c+d x]^2 (A \text{Cos}[c+d x]+C \text{Sec}[c+d x])$$

$$\left(-\left(8 i \left(-15 a^2 A b^4+6 A b^6+2 a^6 C+a^4 b^2 (12 A+C)\right) \text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d x}{2}\right] (i \text{Cos}[c]+\text{Sin}[c]) \left(-b \text{Sin}\left[\frac{d x}{2}\right]+a \text{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}\right] (b+a \text{Cos}[c+d x])^2 (\text{Cos}[c]-i \text{Sin}[c])\right) \Big/ \left(\left(a^2-b^2\right)^{5/2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}\right)+\right.$$

$$\frac{1}{\left(a^2-b^2\right)^2} \text{Sec}[c] \left(-12 A b \left(a^2-b^2\right)^2 \left(a^2+2 b^2\right) d x \text{Cos}[c]-24 a A b^2 \left(a^2-b^2\right)^2 d x \text{Cos}[d x]-24 a^5 A b^2 d x \text{Cos}[2 c+d x]+\right.$$

$$48 a^3 A b^4 d x \text{Cos}[2 c+d x]-24 a A b^6 d x \text{Cos}[2 c+d x]-6 a^6 A b d x \text{Cos}[c+2 d x]+12 a^4 A b^3 d x \text{Cos}[c+2 d x]-$$
$$6 a^2 A b^5 d x \text{Cos}[c+2 d x]-6 a^6 A b d x \text{Cos}[3 c+2 d x]+12 a^4 A b^3 d x \text{Cos}[3 c+2 d x]-6 a^2 A b^5 d x \text{Cos}[3 c+2 d x]+$$
$$16 a^4 A b^3 \text{Sin}[c]+22 a^2 A b^5 \text{Sin}[c]-20 A b^7 \text{Sin}[c]+8 a^6 b C \text{Sin}[c]+14 a^4 b^3 C \text{Sin}[c]-4 a^2 b^5 C \text{Sin}[c]+$$
$$a^7 A \text{Sin}[d x]+2 a^5 A b^2 \text{Sin}[d x]-53 a^3 A b^4 \text{Sin}[d x]+32 a A b^6 \text{Sin}[d x]-22 a^5 b^2 C \text{Sin}[d x]+$$
$$4 a^3 b^4 C \text{Sin}[d x]+a^7 A \text{Sin}[2 c+d x]+2 a^5 A b^2 \text{Sin}[2 c+d x]+11 a^3 A b^4 \text{Sin}[2 c+d x]-8 a A b^6 \text{Sin}[2 c+d x]+$$
$$10 a^5 b^2 C \text{Sin}[2 c+d x]-4 a^3 b^4 C \text{Sin}[2 c+d x]+4 a^6 A b \text{Sin}[c+2 d x]-24 a^4 A b^3 \text{Sin}[c+2 d x]+$$
$$14 a^2 A b^5 \text{Sin}[c+2 d x]-8 a^6 b C \text{Sin}[c+2 d x]+2 a^4 b^3 C \text{Sin}[c+2 d x]+4 a^6 A b \text{Sin}[3 c+2 d x]-$$
$$8 a^4 A b^3 \text{Sin}[3 c+2 d x]+4 a^2 A b^5 \text{Sin}[3 c+2 d x]+a^7 A \text{Sin}[2 c+3 d x]-2 a^5 A b^2 \text{Sin}[2 c+3 d x]+$$
$$\left.\left.a^3 A b^4 \text{Sin}[2 c+3 d x]+a^7 A \text{Sin}[4 c+3 d x]-2 a^5 A b^2 \text{Sin}[4 c+3 d x]+a^3 A b^4 \text{Sin}[4 c+3 d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^4 \left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^4}, x, 8, 0\right\}$$

$$-\frac{4 a C \text{ArcTanh}[\text{Sin}[c+d x]]}{b^5 d}+\frac{\left(3 a^2 A b^6+2 A b^8-8 a^8 C+28 a^6 b^2 C-35 a^4 b^4 C+20 a^2 b^6 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^5 \left(a^2-b^2\right)^{7/2} d}+$$

$$\frac{\left(4 a^2 A b^4+11 A b^6+24 a^6 C-68 a^4 b^2 C+65 a^2 b^4 C-6 b^6 C\right) \text{Tan}[c+d x]}{6 b^4 \left(a^2-b^2\right)^3 d}-$$

$$\frac{\left(A b^2+a^2 C\right) \text{Sec}[c+d x]^3 \text{Tan}[c+d x]}{3 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^3}+\frac{\left(2 a^2 A b^2+3 A b^4-4 a^4 C+9 a^2 b^2 C\right) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{6 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])^2}-$$

$$\frac{\left(3 a^2 A b^4+2 A b^6+4 a^6 C-11 a^4 b^2 C+12 a^2 b^4 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 b^3 \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])}$$

$$\frac{8\,a\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^5\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}-$$

$$\frac{8\,a\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^5\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}+$$

$$\frac{1}{\left(-a^2+b^2\right)^3\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}$$

$$\left(3\,a^2\,A\,b^6+2\,A\,b^8-8\,a^8\,C+28\,a^6\,b^2\,C-35\,a^4\,b^4\,C+20\,a^2\,b^6\,C\right)(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Cos}[c]}{b^5\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\right.$$

$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Sin}[c]}{b^5\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)+$$

$$\frac{1}{24\,b^4\,\left(-a^2+b^2\right)^3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(12\,a^5\,A\,b^4\,\mathrm{Sin}[c]+81\,a^3\,A\,b^6\,\mathrm{Sin}[c]+132\,a\,A\,b^8\,\mathrm{Sin}[c]+72\,a^9\,C\,\mathrm{Sin}[c]+84\,a^7\,b^2\,C\,\mathrm{Sin}[c]-\right.$$
$$621\,a^5\,b^4\,C\,\mathrm{Sin}[c]+762\,a^3\,b^6\,C\,\mathrm{Sin}[c]-72\,a\,b^8\,C\,\mathrm{Sin}[c]-39\,a^4\,A\,b^5\,\mathrm{Sin}[d\,x]-142\,a^2\,A\,b^7\,\mathrm{Sin}[d\,x]-44\,A\,b^9\,\mathrm{Sin}[d\,x]-$$
$$276\,a^8\,b\,C\,\mathrm{Sin}[d\,x]+663\,a^6\,b^3\,C\,\mathrm{Sin}[d\,x]-400\,a^4\,b^5\,C\,\mathrm{Sin}[d\,x]-260\,a^2\,b^7\,C\,\mathrm{Sin}[d\,x]+48\,b^9\,C\,\mathrm{Sin}[d\,x]+$$
$$33\,a^4\,A\,b^5\,\mathrm{Sin}[2\,c+d\,x]+88\,a^2\,A\,b^7\,\mathrm{Sin}[2\,c+d\,x]+44\,A\,b^9\,\mathrm{Sin}[2\,c+d\,x]+156\,a^8\,b\,C\,\mathrm{Sin}[2\,c+d\,x]-369\,a^6\,b^3\,C\,\mathrm{Sin}[2\,c+d\,x]+$$
$$226\,a^4\,b^5\,C\,\mathrm{Sin}[2\,c+d\,x]+152\,a^2\,b^7\,C\,\mathrm{Sin}[2\,c+d\,x]-16\,a^5\,A\,b^4\,\mathrm{Sin}[c+2\,d\,x]-47\,a^3\,A\,b^6\,\mathrm{Sin}[c+2\,d\,x]-$$
$$102\,a\,A\,b^8\,\mathrm{Sin}[c+2\,d\,x]-72\,a^9\,C\,\mathrm{Sin}[c+2\,d\,x]-28\,a^7\,b^2\,C\,\mathrm{Sin}[c+2\,d\,x]+463\,a^5\,b^4\,C\,\mathrm{Sin}[c+2\,d\,x]-600\,a^3\,b^6\,C$$
$$\mathrm{Sin}[c+2\,d\,x]+72\,a\,b^8\,C\,\mathrm{Sin}[c+2\,d\,x]+45\,a^3\,A\,b^6\,\mathrm{Sin}[3\,c+2\,d\,x]+30\,a\,A\,b^8\,\mathrm{Sin}[3\,c+2\,d\,x]+24\,a^9\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-$$
$$12\,a^7\,b^2\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-93\,a^5\,b^4\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+156\,a^3\,b^6\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-15\,a^4\,A\,b^5\,\mathrm{Sin}[2\,c+3\,d\,x]-$$
$$60\,a^2\,A\,b^7\,\mathrm{Sin}[2\,c+3\,d\,x]-132\,a^8\,b\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+375\,a^6\,b^3\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-354\,a^4\,b^5\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$36\,a^2\,b^7\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+9\,a^4\,A\,b^5\,\mathrm{Sin}[4\,c+3\,d\,x]+6\,a^2\,A\,b^7\,\mathrm{Sin}[4\,c+3\,d\,x]+12\,a^8\,b\,C\,\mathrm{Sin}[4\,c+3\,d\,x]-$$
$$33\,a^6\,b^3\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+36\,a^4\,b^5\,C\,\mathrm{Sin}[4\,c+3\,d\,x]-4\,a^5\,A\,b^4\,\mathrm{Sin}[3\,c+4\,d\,x]-11\,a^3\,A\,b^6\,\mathrm{Sin}[3\,c+4\,d\,x]-$$
$$\left.24\,a^9\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+68\,a^7\,b^2\,C\,\mathrm{Sin}[3\,c+4\,d\,x]-65\,a^5\,b^4\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+6\,a^3\,b^6\,C\,\mathrm{Sin}[3\,c+4\,d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$\frac{C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{b^4\,d}-\frac{a\,\left(a^2\,A\,b^4+4\,A\,b^6-2\,a^6\,C+7\,a^4\,b^2\,C-8\,a^2\,b^4\,C+8\,b^6\,C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\,\left(a^2-b^2\right)^{7/2}\,d}-$$

$$\frac{\left(A\,b^2+a^2\,C\right)\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}+\frac{\left(3\,a^2\,A\,b^2+2\,A\,b^4-3\,a^4\,C+8\,a^2\,b^2\,C\right)\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{6\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-$$

$$\frac{\left(13\,a^2\,A\,b^4+2\,A\,b^6+6\,a^6\,C-17\,a^4\,b^2\,C+26\,a^2\,b^4\,C\right)\mathrm{Tan}[c+d\,x]}{6\,b^3\,\left(a^2-b^2\right)^3\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$-\frac{2\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}+$$

$$\frac{2\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}+$$

$$\left(\left(a^2\,A\,b^4+4\,A\,b^6-2\,a^6\,C+7\,a^4\,b^2\,C-8\,a^2\,b^4\,C+8\,b^6\,C\right)(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{2\,i\,a\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Cos}[c]}{b^4\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}+\right.$$

$$\left.\left.\frac{2\,a\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Sin}[c]}{b^4\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\right)\Big/$$

$$\left(\left(-a^2+b^2\right)^3\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right)+$$

$$\frac{1}{12\,a\,b^3\,\left(-a^2+b^2\right)^3\,d\,(A+2\,C+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-78\,a^4\,A\,b^5\,\mathrm{Sin}[c]-64\,a^2\,A\,b^7\,\mathrm{Sin}[c]-8\,A\,b^9\,\mathrm{Sin}[c]-\right.$$
$$36\,a^8\,b\,C\,\mathrm{Sin}[c]+78\,a^6\,b^3\,C\,\mathrm{Sin}[c]-88\,a^4\,b^5\,C\,\mathrm{Sin}[c]-104\,a^2\,b^7\,C\,\mathrm{Sin}[c]+24\,a^5\,A\,b^4\,\mathrm{Sin}[d\,x]+102\,a^3\,A\,b^6\,\mathrm{Sin}[d\,x]+$$
$$24\,a\,A\,b^8\,\mathrm{Sin}[d\,x]+12\,a^9\,C\,\mathrm{Sin}[d\,x]+24\,a^7\,b^2\,C\,\mathrm{Sin}[d\,x]-114\,a^5\,b^4\,C\,\mathrm{Sin}[d\,x]+228\,a^3\,b^6\,C\,\mathrm{Sin}[d\,x]-$$
$$15\,a^5\,A\,b^4\,\mathrm{Sin}[2\,c+d\,x]-60\,a^3\,A\,b^6\,\mathrm{Sin}[2\,c+d\,x]-6\,a^9\,C\,\mathrm{Sin}[2\,c+d\,x]+3\,a^7\,b^2\,C\,\mathrm{Sin}[2\,c+d\,x]+12\,a^5\,b^4\,C\,\mathrm{Sin}[2\,c+d\,x]-$$
$$84\,a^3\,b^6\,C\,\mathrm{Sin}[2\,c+d\,x]-3\,a^6\,A\,b^3\,\mathrm{Sin}[c+2\,d\,x]+66\,a^4\,A\,b^5\,\mathrm{Sin}[c+2\,d\,x]+12\,a^2\,A\,b^7\,\mathrm{Sin}[c+2\,d\,x]+33\,a^8\,b\,C\,\mathrm{Sin}[c+2\,d\,x]-$$
$$96\,a^6\,b^3\,C\,\mathrm{Sin}[c+2\,d\,x]+138\,a^4\,b^5\,C\,\mathrm{Sin}[c+2\,d\,x]-3\,a^6\,A\,b^3\,\mathrm{Sin}[3\,c+2\,d\,x]-12\,a^4\,A\,b^5\,\mathrm{Sin}[3\,c+2\,d\,x]-$$
$$3\,a^8\,b\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+6\,a^6\,b^3\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-18\,a^4\,b^5\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+13\,a^5\,A\,b^4\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$\left.2\,a^3\,A\,b^6\,\mathrm{Sin}[2\,c+3\,d\,x]+6\,a^9\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-17\,a^7\,b^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+26\,a^5\,b^4\,C\,\mathrm{Sin}[2\,c+3\,d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]\,\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$

$$-\frac{a\,\left(2\,a^2\,A+3\,A\,b^2+a^2\,C+4\,b^2\,C\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{\left(a^2-b^2\right)^{7/2}\,d}-\frac{\left(A\,b^2+a^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^3}-$$

$$\frac{a\,\left(5\,A\,b^2-a^2\,C+6\,b^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{6\,b\,\left(a^2-b^2\right)^2\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^2}-\frac{\left(11\,a^2\,A\,b^2+4\,A\,b^4-a^4\,C+10\,a^2\,b^2\,C+6\,b^4\,C\right)\,\mathrm{Tan}[c+d\,x]}{6\,b\,\left(a^2-b^2\right)^3\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{12 a^3 \left(-a^2+b^2\right)^3 d \left(A+2 C+A \operatorname{Cos}[2 (c+d x)]\right) (a+b \operatorname{Sec}[c+d x])^4} (b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x]^2 \left(A+C \operatorname{Sec}[c+d x]^2\right)$$

$$\left(\frac{24 a^4 \left(a^2 (2 A+C)+b^2 (3 A+4 C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (b+a \operatorname{Cos}[c+d x])^3 (i \operatorname{Cos}[c]+\operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}} - \right.$$

$$\operatorname{Sec}[c] \left(2 b^2 \left(3 a^2+2 b^2\right) \left(2 A b^4+a^2 b^2 (-5 A+2 C)+a^4 (18 A+13 C)\right) \operatorname{Sin}[c]+ a \left(-6 b \left(2 A b^6+a^2 b^4 (-3 A+4 C)+a^6 (6 A+4 C)+a^4 b^2 (20 A+17 C)\right) \operatorname{Sin}[d x]+ 3 b \left(-12 a^2 A b^4+4 A b^6+a^6 (6 A+5 C)+a^4 b^2 (27 A+20 C)\right) \operatorname{Sin}[2 c+d x]+ a \left(3 \left(-2 A b^6+4 a^2 b^4 (A-C)+a^6 C-a^4 b^2 (27 A+22 C)\right) \operatorname{Sin}[c+2 d x]+3 \left(-6 a^2 A b^4+2 A b^6+a^6 C+a^4 b^2 (9 A+4 C)\right) \right.\right.\right.$$

$$\left.\left.\left.\left.\operatorname{Sin}[3 c+2 d x]-a b \left(2 A b^4+a^2 b^2 (-5 A+2 C)+a^4 (18 A+13 C)\right) \operatorname{Sin}[2 c+3 d x]\right)\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+C \operatorname{Sec}[c+d x]^2}{(a+b \operatorname{Sec}[c+d x])^4}, x, 5, 0\right\}$$

$$\frac{A x}{a^4}+\frac{b \left(8 a^6 A-8 a^4 A b^2+7 a^2 A b^4-2 A b^6+4 a^6 C+a^4 b^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4 \left(a^2-b^2\right)^{7/2} d}+\frac{\left(A b^2+a^2 C\right) \operatorname{Tan}[c+d x]}{3 a \left(a^2-b^2\right) d (a+b \operatorname{Sec}[c+d x])^3}+$$

$$\frac{\left(8 a^2 A b^2-3 A b^4+2 a^4 C+3 a^2 b^2 C\right) \operatorname{Tan}[c+d x]}{6 a^2 \left(a^2-b^2\right)^2 d (a+b \operatorname{Sec}[c+d x])^2}+\frac{\left(26 a^4 A b^2-17 a^2 A b^4+6 A b^6+2 a^6 C+13 a^4 b^2 C\right) \operatorname{Tan}[c+d x]}{6 a^3 \left(a^2-b^2\right)^3 d (a+b \operatorname{Sec}[c+d x])}$$

$$\left(\left(-8 a^6 A+8 a^4 A b^2-7 a^2 A b^4+2 A b^6-4 a^6 C-a^4 b^2 C\right)(b+a \operatorname{Cos}[c+d x])^4 \operatorname{Sec}[c+d x]^2\left(A+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\frac{2 i b \operatorname{ArcTan}\left[\operatorname{Sec}\left[\frac{d x}{2}\right]\left(\frac{\operatorname{Cos}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}-\frac{i \operatorname{Sin}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)\left(-i b \operatorname{Sin}\left[\frac{d x}{2}\right]+i a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \operatorname{Cos}[c]}{a^4 \sqrt{a^2-b^2}\, d \sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}+\right.$$

$$\left.\left.\frac{2 b \operatorname{ArcTan}\left[\operatorname{Sec}\left[\frac{d x}{2}\right]\left(\frac{\operatorname{Cos}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}-\frac{i \operatorname{Sin}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)\left(-i b \operatorname{Sin}\left[\frac{d x}{2}\right]+i a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \operatorname{Sin}[c]}{a^4 \sqrt{a^2-b^2}\, d \sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)\right) \Big/$$

$$\left(\left(-a^2+b^2\right)^3(A+2 C+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^4\right)+$$

$$\frac{1}{12 a^4\left(a^2-b^2\right)^3 d\,(A+2 C+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^4}$$

$$(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2\left(A+C \operatorname{Sec}[c+d x]^2\right)$$

$$\left(36 a^8 A b d x \operatorname{Cos}[c]-84 a^6 A b^3 d x \operatorname{Cos}[c]+36 a^4 A b^5 d x \operatorname{Cos}[c]+36 a^2 A b^7 d x \operatorname{Cos}[c]-24 A b^9 d x \operatorname{Cos}[c]+\right.$$
$$9 a^9 A d x \operatorname{Cos}[d x]+9 a^7 A b^2 d x \operatorname{Cos}[d x]-81 a^5 A b^4 d x \operatorname{Cos}[d x]+99 a^3 A b^6 d x \operatorname{Cos}[d x]-36 a A b^8 d x \operatorname{Cos}[d x]+$$
$$9 a^9 A d x \operatorname{Cos}[2 c+d x]+9 a^7 A b^2 d x \operatorname{Cos}[2 c+d x]-81 a^5 A b^4 d x \operatorname{Cos}[2 c+d x]+99 a^3 A b^6 d x \operatorname{Cos}[2 c+d x]-$$
$$36 a A b^8 d x \operatorname{Cos}[2 c+d x]+18 a^8 A b d x \operatorname{Cos}[c+2 d x]-54 a^6 A b^3 d x \operatorname{Cos}[c+2 d x]+54 a^4 A b^5 d x \operatorname{Cos}[c+2 d x]-$$
$$18 a^2 A b^7 d x \operatorname{Cos}[c+2 d x]+18 a^8 A b d x \operatorname{Cos}[3 c+2 d x]-54 a^6 A b^3 d x \operatorname{Cos}[3 c+2 d x]+54 a^4 A b^5 d x \operatorname{Cos}[3 c+2 d x]-$$
$$18 a^2 A b^7 d x \operatorname{Cos}[3 c+2 d x]+3 a^9 A d x \operatorname{Cos}[2 c+3 d x]-9 a^7 A b^2 d x \operatorname{Cos}[2 c+3 d x]+9 a^5 A b^4 d x \operatorname{Cos}[2 c+3 d x]-$$
$$3 a^3 A b^6 d x \operatorname{Cos}[2 c+3 d x]+3 a^9 A d x \operatorname{Cos}[4 c+3 d x]-9 a^7 A b^2 d x \operatorname{Cos}[4 c+3 d x]+9 a^5 A b^4 d x \operatorname{Cos}[4 c+3 d x]-$$
$$3 a^3 A b^6 d x \operatorname{Cos}[4 c+3 d x]-216 a^6 A b^3 \operatorname{Sin}[c]+48 a^4 A b^5 \operatorname{Sin}[c]+62 a^2 A b^7 \operatorname{Sin}[c]-44 A b^9 \operatorname{Sin}[c]-$$
$$36 a^8 b C \operatorname{Sin}[c]-84 a^6 b^3 C \operatorname{Sin}[c]-34 a^4 b^5 C \operatorname{Sin}[c]+4 a^2 b^7 C \operatorname{Sin}[c]+72 a^7 A b^2 \operatorname{Sin}[d x]+204 a^5 A b^4 \operatorname{Sin}[d x]-$$
$$204 a^3 A b^6 \operatorname{Sin}[d x]+78 a A b^8 \operatorname{Sin}[d x]+12 a^9 C \operatorname{Sin}[d x]+60 a^7 b^2 C \operatorname{Sin}[d x]+84 a^5 b^4 C \operatorname{Sin}[d x]-6 a^3 b^6 C \operatorname{Sin}[d x]-$$
$$36 a^7 A b^2 \operatorname{Sin}[2 c+d x]-132 a^5 A b^4 \operatorname{Sin}[2 c+d x]+147 a^3 A b^6 \operatorname{Sin}[2 c+d x]-54 a A b^8 \operatorname{Sin}[2 c+d x]-$$
$$6 a^9 C \operatorname{Sin}[2 c+d x]-42 a^7 b^2 C \operatorname{Sin}[2 c+d x]-33 a^5 b^4 C \operatorname{Sin}[2 c+d x]+6 a^3 b^6 C \operatorname{Sin}[2 c+d x]+168 a^6 A b^3 \operatorname{Sin}[c+2 d x]-$$
$$141 a^4 A b^5 \operatorname{Sin}[c+2 d x]+48 a^2 A b^7 \operatorname{Sin}[c+2 d x]+24 a^8 b C \operatorname{Sin}[c+2 d x]+57 a^6 b^3 C \operatorname{Sin}[c+2 d x]-$$
$$6 a^4 b^5 C \operatorname{Sin}[c+2 d x]-48 a^6 A b^3 \operatorname{Sin}[3 c+2 d x]+51 a^4 A b^5 \operatorname{Sin}[3 c+2 d x]-18 a^2 A b^7 \operatorname{Sin}[3 c+2 d x]-$$
$$12 a^8 b C \operatorname{Sin}[3 c+2 d x]-3 a^6 b^3 C \operatorname{Sin}[3 c+2 d x]+36 a^7 A b^2 \operatorname{Sin}[2 c+3 d x]-32 a^5 A b^4 \operatorname{Sin}[2 c+3 d x]+$$
$$\left.11 a^3 A b^6 \operatorname{Sin}[2 c+3 d x]+6 a^9 C \operatorname{Sin}[2 c+3 d x]+10 a^7 b^2 C \operatorname{Sin}[2 c+3 d x]-a^5 b^4 C \operatorname{Sin}[2 c+3 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]\left(A+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^4}, x, 7, 0\right\}$$

$$-\frac{4 A b x}{a^5}-\frac{\left(20 a^6 A b^2-35 a^4 A b^4+28 a^2 A b^6-8 A b^8+2 a^8 C+3 a^6 b^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5\left(a^2-b^2\right)^{7/2} d}+$$

$$\frac{\left(6 a^6 A-65 a^4 A b^2+68 a^2 A b^4-24 A b^6-11 a^6 C-4 a^4 b^2 C\right) \operatorname{Sin}[c+d x]}{6 a^4\left(a^2-b^2\right)^3 d}+\frac{\left(A b^2+a^2 C\right) \operatorname{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d\,(a+b \operatorname{Sec}[c+d x])^3}+$$

$$\frac{\left(9 a^2 A b^2-4 A b^4+3 a^4 C+2 a^2 b^2 C\right) \operatorname{Sin}[c+d x]}{6 a^2\left(a^2-b^2\right)^2 d\,(a+b \operatorname{Sec}[c+d x])^2}+\frac{\left(12 a^4 A b^2-11 a^2 A b^4+4 A b^6+2 a^6 C+3 a^4 b^2 C\right) \operatorname{Sin}[c+d x]}{2 a^3\left(a^2-b^2\right)^3 d\,(a+b \operatorname{Sec}[c+d x])}$$

$$\frac{1}{\left(-a^2+b^2\right)^3 (A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$

$$\left(-20a^6Ab^2+35a^4Ab^4-28a^2Ab^6+8Ab^8-2a^8C-3a^6b^2C\right)(b+a\,\mathrm{Cos}[c+dx])^4\,\mathrm{Sec}[c+dx]^3\,(A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$

$$\left(-\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Cos}[c]}{a^5\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\right.$$

$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Sin}[c]}{a^5\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)-$$

$$\frac{1}{24a^5\left(a^2-b^2\right)^3 d\,(A+2C+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$

$$(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$

$$\begin{aligned}
&\big(288a^8Ab^2dx\,\mathrm{Cos}[c]-672a^6Ab^4dx\,\mathrm{Cos}[c]+288a^4Ab^6dx\,\mathrm{Cos}[c]+288a^2Ab^8dx\,\mathrm{Cos}[c]-192Ab^{10}dx\,\mathrm{Cos}[c]+\\
&72a^9Abdx\,\mathrm{Cos}[dx]+72a^7Ab^3dx\,\mathrm{Cos}[dx]-648a^5Ab^5dx\,\mathrm{Cos}[dx]+792a^3Ab^7dx\,\mathrm{Cos}[dx]-288aAb^9dx\,\mathrm{Cos}[dx]+\\
&72a^9Abdx\,\mathrm{Cos}[2c+dx]+72a^7Ab^3dx\,\mathrm{Cos}[2c+dx]-648a^5Ab^5dx\,\mathrm{Cos}[2c+dx]+792a^3Ab^7dx\,\mathrm{Cos}[2c+dx]-\\
&288aAb^9dx\,\mathrm{Cos}[2c+dx]+144a^8Ab^2dx\,\mathrm{Cos}[c+2dx]-432a^6Ab^4dx\,\mathrm{Cos}[c+2dx]+432a^4Ab^6dx\,\mathrm{Cos}[c+2dx]-\\
&144a^2Ab^8dx\,\mathrm{Cos}[c+2dx]+144a^8Ab^2dx\,\mathrm{Cos}[3c+2dx]-432a^6Ab^4dx\,\mathrm{Cos}[3c+2dx]+432a^4Ab^6dx\,\mathrm{Cos}[3c+2dx]-\\
&144a^2Ab^8dx\,\mathrm{Cos}[3c+2dx]+24a^9Abdx\,\mathrm{Cos}[2c+3dx]-72a^7Ab^3dx\,\mathrm{Cos}[2c+3dx]+72a^5Ab^5dx\,\mathrm{Cos}[2c+3dx]-\\
&24a^3Ab^7dx\,\mathrm{Cos}[2c+3dx]+24a^9Abdx\,\mathrm{Cos}[4c+3dx]-72a^7Ab^3dx\,\mathrm{Cos}[4c+3dx]+72a^5Ab^5dx\,\mathrm{Cos}[4c+3dx]-\\
&24a^3Ab^7dx\,\mathrm{Cos}[4c+3dx]-720a^6Ab^4\,\mathrm{Sin}[c]+372a^4Ab^6\,\mathrm{Sin}[c]+256a^2Ab^8\,\mathrm{Sin}[c]-208Ab^{10}\,\mathrm{Sin}[c]-\\
&216a^8b^2C\,\mathrm{Sin}[c]-84a^6b^4C\,\mathrm{Sin}[c]+16a^4b^6C\,\mathrm{Sin}[c]-16a^2b^8C\,\mathrm{Sin}[c]-18a^9Ab\,\mathrm{Sin}[dx]+270a^7Ab^3\,\mathrm{Sin}[dx]+\\
&642a^5Ab^5\,\mathrm{Sin}[dx]-1002a^3Ab^7\,\mathrm{Sin}[dx]+408aAb^9\,\mathrm{Sin}[dx]+72a^9bC\,\mathrm{Sin}[dx]+240a^7b^3C\,\mathrm{Sin}[dx]-\\
&36a^5b^5C\,\mathrm{Sin}[dx]+24a^3b^7C\,\mathrm{Sin}[dx]-18a^9Ab\,\mathrm{Sin}[2c+dx]-90a^7Ab^3\,\mathrm{Sin}[2c+dx]-372a^5Ab^5\,\mathrm{Sin}[2c+dx]+\\
&546a^3Ab^7\,\mathrm{Sin}[2c+dx]-216aAb^9\,\mathrm{Sin}[2c+dx]-36a^9bC\,\mathrm{Sin}[2c+dx]-162a^7b^3C\,\mathrm{Sin}[2c+dx]+\\
&72a^5b^5C\,\mathrm{Sin}[2c+dx]-24a^3b^7C\,\mathrm{Sin}[2c+dx]-6a^{10}A\,\mathrm{Sin}[c+2dx]-18a^8Ab^2\,\mathrm{Sin}[c+2dx]+660a^6Ab^4\,\mathrm{Sin}[c+2dx]-\\
&762a^4Ab^6\,\mathrm{Sin}[c+2dx]+276a^2Ab^8\,\mathrm{Sin}[c+2dx]+162a^8b^2C\,\mathrm{Sin}[c+2dx]-24a^6b^4C\,\mathrm{Sin}[c+2dx]+\\
&12a^4b^6C\,\mathrm{Sin}[c+2dx]-6a^{10}A\,\mathrm{Sin}[3c+2dx]-18a^8Ab^2\,\mathrm{Sin}[3c+2dx]-60a^6Ab^4\,\mathrm{Sin}[3c+2dx]+\\
&90a^4Ab^6\,\mathrm{Sin}[3c+2dx]-36a^2Ab^8\,\mathrm{Sin}[3c+2dx]-54a^8b^2C\,\mathrm{Sin}[3c+2dx]+36a^6b^4C\,\mathrm{Sin}[3c+2dx]-\\
&12a^4b^6C\,\mathrm{Sin}[3c+2dx]-18a^9Ab\,\mathrm{Sin}[2c+3dx]+174a^7Ab^3\,\mathrm{Sin}[2c+3dx]-196a^5Ab^5\,\mathrm{Sin}[2c+3dx]+\\
&70a^3Ab^7\,\mathrm{Sin}[2c+3dx]+36a^9bC\,\mathrm{Sin}[2c+3dx]-10a^7b^3C\,\mathrm{Sin}[2c+3dx]+4a^5b^5C\,\mathrm{Sin}[2c+3dx]-\\
&18a^9Ab\,\mathrm{Sin}[4c+3dx]+54a^7Ab^3\,\mathrm{Sin}[4c+3dx]-54a^5Ab^5\,\mathrm{Sin}[4c+3dx]+18a^3Ab^7\,\mathrm{Sin}[4c+3dx]-\\
&3a^{10}A\,\mathrm{Sin}[3c+4dx]+9a^8Ab^2\,\mathrm{Sin}[3c+4dx]-9a^6Ab^4\,\mathrm{Sin}[3c+4dx]+3a^4Ab^6\,\mathrm{Sin}[3c+4dx]-\\
&3a^{10}A\,\mathrm{Sin}[5c+4dx]+9a^8Ab^2\,\mathrm{Sin}[5c+4dx]-9a^6Ab^4\,\mathrm{Sin}[5c+4dx]+3a^4Ab^6\,\mathrm{Sin}[5c+4dx]\big)
\end{aligned}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]^2\left(A+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^4},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2 A+20 A b^2+2 a^2 C\right) x}{2 a^6}+$$

$$\frac{b\left(40 a^6 A b^2-84 a^4 A b^4+69 a^2 A b^6-20 A b^8+8 a^8 C-8 a^6 b^2 C+7 a^4 b^4 C-2 a^2 b^6 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^6\left(a^2-b^2\right)^{7/2} d}-$$

$$\frac{b\left(24 a^6 A-146 a^4 A b^2+167 a^2 A b^4-60 A b^6-26 a^6 C+17 a^4 b^2 C-6 a^2 b^4 C\right) \text{Sin}[c+d x]}{6 a^5\left(a^2-b^2\right)^3 d}+$$

$$\frac{\left(a^6 A-23 a^4 A b^2+27 a^2 A b^4-10 A b^6-6 a^6 C+2 a^4 b^2 C-a^2 b^4 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{2 a^4\left(a^2-b^2\right)^3 d}+$$

$$\frac{\left(A b^2+a^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d(a+b \text{Sec}[c+d x])^3}+\frac{\left(10 a^2 A b^2-5 A b^4+4 a^4 C+a^2 b^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{6 a^2\left(a^2-b^2\right)^2 d(a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(48 a^4 A b^2-53 a^2 A b^4+20 A b^6+12 a^6 C+a^4 b^2 C+2 a^2 b^4 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{6 a^3\left(a^2-b^2\right)^3 d(a+b \text{Sec}[c+d x])}$$

$$\left(b\left(-40 a^6 A b^2+84 a^4 A b^4-69 a^2 A b^6+20 A b^8-8 a^8 C+8 a^6 b^2 C-7 a^4 b^4 C+2 a^2 b^6 C\right)\right.$$

$$\left.\text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right](b+a \text{Cos}[c+d x])^4 \text{Sec}[c+d x]^4\right) \Big/$$

$$\left(a^6 \sqrt{a^2-b^2}\left(-a^2+b^2\right)^3 d(a+b \text{Sec}[c+d x])^4\right)-\frac{1}{96 a^6\left(a^2-b^2\right)^3 d(a+b \text{Sec}[c+d x])^4}$$

$$(b+a \text{Cos}[c+d x]) \text{Sec}[c+d x]^4\left(-72 a^{10} A b(c+d x)-1272 a^8 A b^3(c+d x)+3288 a^6 A b^5(c+d x)-1512 a^4 A b^7(c+d x)-\right.$$
$$1392 a^2 A b^9(c+d x)+960 A b^{11}(c+d x)-144 a^{10} b C(c+d x)+336 a^8 b^3 C(c+d x)-144 a^6 b^5 C(c+d x)-$$
$$144 a^4 b^7 C(c+d x)+96 a^2 b^9 C(c+d x)-36 a^{11} A(c+d x) \text{Cos}[c+d x]-756 a^9 A b^2(c+d x) \text{Cos}[c+d x]-$$
$$396 a^7 A b^4(c+d x) \text{Cos}[c+d x]+6084 a^5 A b^6(c+d x) \text{Cos}[c+d x]-7776 a^3 A b^8(c+d x) \text{Cos}[c+d x]+$$
$$2880 a A b^{10}(c+d x) \text{Cos}[c+d x]-72 a^{11} C(c+d x) \text{Cos}[c+d x]-72 a^9 b^2 C(c+d x) \text{Cos}[c+d x]+$$
$$648 a^7 b^4 C(c+d x) \text{Cos}[c+d x]-792 a^5 b^6 C(c+d x) \text{Cos}[c+d x]+288 a^3 b^8 C(c+d x) \text{Cos}[c+d x]-$$
$$72 a^{10} A b(c+d x) \text{Cos}[2(c+d x)]-1224 a^8 A b^3(c+d x) \text{Cos}[2(c+d x)]+4104 a^6 A b^5(c+d x) \text{Cos}[2(c+d x)]-$$
$$4248 a^4 A b^7(c+d x) \text{Cos}[2(c+d x)]+1440 a^2 A b^9(c+d x) \text{Cos}[2(c+d x)]-144 a^{10} b C(c+d x) \text{Cos}[2(c+d x)]+$$
$$432 a^8 b^3 C(c+d x) \text{Cos}[2(c+d x)]-432 a^6 b^5 C(c+d x) \text{Cos}[2(c+d x)]+144 a^4 b^7 C(c+d x) \text{Cos}[2(c+d x)]-$$
$$12 a^{11} A(c+d x) \text{Cos}[3(c+d x)]-204 a^9 A b^2(c+d x) \text{Cos}[3(c+d x)]+684 a^7 A b^4(c+d x) \text{Cos}[3(c+d x)]-$$
$$708 a^5 A b^6(c+d x) \text{Cos}[3(c+d x)]+240 a^3 A b^8(c+d x) \text{Cos}[3(c+d x)]-24 a^{11} C(c+d x) \text{Cos}[3(c+d x)]+$$
$$72 a^9 b^2 C(c+d x) \text{Cos}[3(c+d x)]-72 a^7 b^4 C(c+d x) \text{Cos}[3(c+d x)]+24 a^5 b^6 C(c+d x) \text{Cos}[3(c+d x)]-$$
$$6 a^{11} A \text{Sin}[c+d x]+270 a^9 A b^2 \text{Sin}[c+d x]-750 a^7 A b^4 \text{Sin}[c+d x]-1086 a^5 A b^6 \text{Sin}[c+d x]+2232 a^3 A b^8 \text{Sin}[c+d x]-$$
$$960 a A b^{10} \text{Sin}[c+d x]-144 a^9 b^2 C \text{Sin}[c+d x]-288 a^7 b^4 C \text{Sin}[c+d x]+228 a^5 b^6 C \text{Sin}[c+d x]-96 a^3 b^8 C \text{Sin}[c+d x]+$$
$$60 a^{10} A b \text{Sin}[2(c+d x)]+372 a^8 A b^3 \text{Sin}[2(c+d x)]-2772 a^6 A b^5 \text{Sin}[2(c+d x)]+3300 a^4 A b^7 \text{Sin}[2(c+d x)]-$$
$$1200 a^2 A b^9 \text{Sin}[2(c+d x)]-480 a^8 b^3 C \text{Sin}[2(c+d x)]+360 a^6 b^5 C \text{Sin}[2(c+d x)]-120 a^4 b^7 C \text{Sin}[2(c+d x)]-$$
$$9 a^{11} A \text{Sin}[3(c+d x)]+279 a^9 A b^2 \text{Sin}[3(c+d x)]-1143 a^7 A b^4 \text{Sin}[3(c+d x)]+1253 a^5 A b^6 \text{Sin}[3(c+d x)]-$$
$$440 a^3 A b^8 \text{Sin}[3(c+d x)]-144 a^9 b^2 C \text{Sin}[3(c+d x)]+128 a^7 b^4 C \text{Sin}[3(c+d x)]-44 a^5 b^6 C \text{Sin}[3(c+d x)]+$$
$$30 a^{10} A b \text{Sin}[4(c+d x)]-90 a^8 A b^3 \text{Sin}[4(c+d x)]+90 a^6 A b^5 \text{Sin}[4(c+d x)]-30 a^4 A b^7 \text{Sin}[4(c+d x)]-$$
$$\left.3 a^{11} A \text{Sin}[5(c+d x)]+9 a^9 A b^2 \text{Sin}[5(c+d x)]-9 a^7 A b^4 \text{Sin}[5(c+d x)]+3 a^5 A b^6 \text{Sin}[5(c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{a^2-b^2 \text{Sec}[c+d x]^2}{a+b \text{Sec}[c+d x]}, x, 3, 0\right\}$$

$$a x-\frac{b \text{ArcTanh}[\text{Sin}[c+d x]]}{d}$$

$$\frac{a d x+b \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]-\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-b \text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d x)\right]+\text{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{d}$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^3\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\left(2\,(a+b)\,\left(42\,a^2\,A\,b^2-189\,A\,b^4+16\,a^4\,C+24\,a^2\,b^2\,C-147\,b^4\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(315\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{1}{315\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,2\,\left(42\,a^2\,A\,b^2-147\,a\,A\,b^3-189\,A\,b^4+16\,a^4\,C+4\,a^3\,b\,C+24\,a^2\,b^2\,C-111\,a\,b^3\,C-147\,b^4\,C\right)$$

$$\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]-$$

$$\frac{2\,\left(42\,a^2\,A\,b^2-189\,A\,b^4+16\,a^4\,C+24\,a^2\,b^2\,C-147\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^4\,d}+$$

$$\frac{2\,a\,\left(21\,A\,b^2+8\,a^2\,C+13\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^3\,d}+$$

$$\frac{2\,\left(63\,A\,b^2-6\,a^2\,C+49\,b^2\,C\right)\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^2\,d}+$$

$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{63\,b\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\int\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^2\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,a\,(a+b)\,\left(35\,A\,b^2+8\,a^2\,C+19\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\,\left(35\,a\,A\,b^2+35\,A\,b^3+8\,a^3\,C+2\,a^2\,b\,C+19\,a\,b^2\,C+25\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,a\,\left(35\,A\,b^2+8\,a^2\,C+19\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^3\,d}+\frac{2\,\left(35\,A\,b^2-4\,a^2\,C+25\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^2\,d}+$$

$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\int\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$-\frac{2(a+b)\left(15Ab^2-2a^2C+9b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{15b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(15aAb+15Ab^2-2a^2C+7abC+9b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{15bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(15Ab^2-2a^2C+9b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{15b^2d}+$$

$$\frac{2aC\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{15bd}+\frac{2C\,\text{Sec}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5d}$$

$$\int\text{Sec}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\sqrt{a+b\,\text{Sec}[c+dx]}\left(A+C\,\text{Sec}[c+dx]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2a(a+b)C\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2(3aA-3Ab-aC-bC)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{4aA\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2aC\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3bd}+\frac{2C\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3d}$$

$$\int\sqrt{a+b\,\text{Sec}[c+dx]}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\left(A+C\,\text{Sec}[c+dx]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{(a+b)(A-2C)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2(Ab-aC-bC)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2Ab\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{A\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{d}-\frac{(A-2C)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{d}$$

$$\int \text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{A\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a\,A-A\,b+4\,a\,C-4\,b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A-A\,b^2+8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{A\,b\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a\,d}$$

$$\frac{1}{2}\left(\frac{A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[2\,(c+d\,x)]}{2\,d}+\right.$$

$$\left(\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(-a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.\right.$$

$$2\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,A\,(a-b)\,b\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\,(A\,b+2\,a\,(A+2\,C))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2a\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}[c+d x]}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg)$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+C\,\text{Sec}[c+d x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\left(16a^2A-3Ab^2+24a^2C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24a^2d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{b(14aA-Ab+24aC)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{12ad\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{b\left(4a^2A+Ab^2+8a^2C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4a^2d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{Ab\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{12ad}+\frac{A\,\text{Cos}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3d}+$$

$$\frac{\left(16a^2A-3Ab^2+24a^2C\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24a^2d}$$

$$\int\text{Cos}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+C\,\text{Sec}[c+d x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^4\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+C\,\text{Sec}[c+d x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{b\,(a+b)\,\left(28\,a^2\,A+15\,A\,b^2+48\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{192\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(\left(72\,a^3\,A-36\,a^2\,A\,b+2\,a\,A\,b^2+5\,A\,b^3+96\,a^3\,C-48\,a^2\,b\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(96\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(\left(48\,a^4\,A-8\,a^2\,A\,b^2-5\,A\,b^4+64\,a^4\,C-16\,a^2\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(32\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{\left(36\,a^2\,A-5\,A\,b^2+48\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{96\,a^2\,d}+\frac{A\,b\,\text{Cos}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,a\,d}+$$

$$\frac{A\,\text{Cos}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+$$

$$\frac{b\,\left(28\,a^2\,A+15\,A\,b^2+48\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{192\,a^3\,d}$$

$$\int\text{Cos}[c+d\,x]^4\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$\left(4\,a\,(a+b)\,\left(33\,a^2\,A\,b^2-451\,A\,b^4+8\,a^4\,C+18\,a^2\,b^2\,C-348\,b^4\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(1155\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\left(2\,\left(66\,a^3\,A\,b^2-561\,a^2\,A\,b^3-902\,a\,A\,b^4-275\,A\,b^5+16\,a^5\,C+4\,a^4\,b\,C+36\,a^3\,b^2\,C-423\,a^2\,b^3\,C-696\,a\,b^4\,C-225\,b^5\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(1155\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{4\,a\,\left(33\,a^2\,A\,b^2-451\,A\,b^4+8\,a^4\,C+18\,a^2\,b^2\,C-348\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{1155\,b^4\,d}+$$

$$\frac{2\,\left(33\,a^2\,A\,b^2+275\,A\,b^4+8\,a^4\,C+19\,a^2\,b^2\,C+225\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{1155\,b^3\,d}+$$

$$\frac{4\,a\,\left(132\,A\,b^2-3\,a^2\,C+101\,b^2\,C\right)\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{1155\,b^2\,d}+$$

$$\frac{2\,\left(33\,A\,b^2+a^2\,C+27\,b^2\,C\right)\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{231\,b\,d}+$$

$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{33\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{11\,d}$$

$$\int\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$-\left(2\,(a+b)\,\left(63\,a^2\,A\,b^2+189\,A\,b^4+8\,a^4\,C+33\,a^2\,b^2\,C+147\,b^4\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(315\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(2\,\left(63\,a^2\,A\,b^2+252\,a\,A\,b^3+189\,A\,b^4+8\,a^4\,C+2\,a^3\,b\,C+33\,a^2\,b^2\,C+186\,a\,b^3\,C+147\,b^4\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(315\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,\left(63\,a^2\,A\,b^2+189\,A\,b^4+8\,a^4\,C+33\,a^2\,b^2\,C+147\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^3\,d}+$$

$$\frac{4\,a\,\left(63\,A\,b^2-2\,a^2\,C+44\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b^2\,d}+$$

$$\frac{2\,\left(63\,A\,b^2+3\,a^2\,C+49\,b^2\,C\right)\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b\,d}+$$

$$\frac{2\,a\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{21\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\int\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$-\frac{4\,a\,(a+b)\,\left(70\,A\,b^2-3\,a^2\,C+41\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{105\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\,\left(105\,a^2\,A\,b+140\,a\,A\,b^2+35\,A\,b^3-6\,a^3\,C+51\,a^2\,b\,C+82\,a\,b^2\,C+25\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{4\,a\,\left(70\,A\,b^2-3\,a^2\,C+41\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^2\,d}+\frac{2\,\left(35\,A\,b^2+3\,a^2\,C+25\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b\,d}+$$

$$\frac{6\,a\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\int\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$-\frac{2(a+b)\left(5Ab^2+a^2C+3b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{5bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(2\left(5a^2A-10aAb-5Ab^2-a^2C-4abC-3b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(5d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{4a^2A\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(5Ab^2+a^2C+3b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{5bd}+$$

$$\frac{2aC\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5d}+\frac{2C(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Tan}[c+dx]}{5d}$$

$$\int(a+b\,\text{Sec}[c+dx])^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx](a+b\,\text{Sec}[c+dx])^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right),x,9,0\right\}$$

$$\frac{a(a+b)(3A-8C)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(6aAb-3Ab^2-3a^2C-4abC-b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{6aAb\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{A(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{d}-\frac{a(3A-8C)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3d}-$$

$$\frac{b(3A-2C)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3d}$$

$$\int\text{Cos}[c+dx](a+b\,\text{Sec}[c+dx])^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{3/2}\left(A+C\,\text{Sec}[c+dx]^2\right),x,9,0\right\}$$

$$\frac{b\,(a+b)\,(5A-8C)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2\,a^2\,A-a\,A\,b+4\,A\,b^2+4\,a^2\,C-8\,a\,b\,C-4\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$+\frac{\left(4\,a^2\,A+3\,A\,b^2+8\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{3\,A\,b\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{b\,(5A-8C)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,d}$$

$$\frac{1}{2}\Bigg(\frac{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(4\,b\,C\,\text{Sin}[c+d\,x]+\frac{1}{2}\,a\,A\,\text{Sin}[2\,(c+d\,x)]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])}-$$

$$\Bigg((a+b\,\text{Sec}[c+d\,x])^{3/2}\Bigg(5\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+5\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$8\,a\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-8\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-10\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$16\,a\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+5\,a\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$5\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-8\,a\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+8\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,b\,(5\,A-8\,C)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\,(b\,(A-4\,C)+2\,a\,(A+2\,C))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(2\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right.$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)\right)$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(A+C\,\text{Sec}[c+d x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\left(16a^2A+3Ab^2+24a^2C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24\,a\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{b\,(26aA-7Ab+48aC-24bC)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{12\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{b\left(12a^2A-Ab^2+24a^2C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{4\,a\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{A\,b\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{4\,d}+\frac{A\,\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Sin}[c+d x]}{3\,d}+$$

$$\frac{\left(16a^2A+3Ab^2+24a^2C\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24\,a\,d}$$

$$\int\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(A+C\,\text{Sec}[c+d x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^4\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(A+C\,\text{Sec}[c+d x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{b\,(a+b)\,\left(52\,a^2\,A-3\,A\,b^2+80\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{64\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(\left(24\,a^3\,A-12\,a^2\,A\,b+38\,a\,A\,b^2-A\,b^3+32\,a^3\,C-16\,a^2\,b\,C+64\,a\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(32\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(\left(48\,a^4\,A+24\,a^2\,A\,b^2+3\,A\,b^4+64\,a^4\,C+48\,a^2\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(32\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{\left(12\,a^2\,A+A\,b^2+16\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{32\,a\,d}+\frac{A\,b\,\text{Cos}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{8\,d}+$$

$$\frac{A\,\text{Cos}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d}+$$

$$\frac{b\,\left(52\,a^2\,A-3\,A\,b^2+80\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{64\,a^2\,d}$$

$$\int\text{Cos}[c+d\,x]^4\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,11,\,0\right\}$$

$$\left(2\,(a+b)\,\left(1430\,a^4\,A\,b^2-39\,897\,a^2\,A\,b^4-21\,021\,A\,b^6+240\,a^6\,C+760\,a^4\,b^2\,C-30\,669\,a^2\,b^4\,C-17\,787\,b^6\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(45\,045\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\left(2\,\left(1430\,a^4\,A\,b^2-22\,165\,a^3\,A\,b^3-39\,897\,a^2\,A\,b^4-37\,323\,a\,A\,b^5-21\,021\,A\,b^6+240\,a^6\,C+60\,a^5\,b\,C+760\,a^4\,b^2\,C-\right.\right.$$

$$\left.16\,685\,a^3\,b^3\,C-30\,669\,a^2\,b^4\,C-30\,831\,a\,b^5\,C-17\,787\,b^6\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(45\,045\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{1}{45\,045\,b^4\,d}2\,\left(1430\,a^4\,A\,b^2-39\,897\,a^2\,A\,b^4-21\,021\,A\,b^6+240\,a^6\,C+760\,a^4\,b^2\,C-30\,669\,a^2\,b^4\,C-17\,787\,b^6\,C\right)$$

$$\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\frac{2\,a\,\left(715\,a^2\,A\,b^2+23\,309\,A\,b^4+120\,a^4\,C+395\,a^2\,b^2\,C+18\,973\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{45\,045\,b^3\,d}+$$

$$\frac{2\,\left(10\,725\,a^2\,A\,b^2+7007\,A\,b^4-90\,a^4\,C+8145\,a^2\,b^2\,C+5929\,b^4\,C\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{45\,045\,b^2\,d}+$$

$$\frac{2\,a\,\left(2717\,A\,b^2+15\,a^2\,C+2209\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{9009\,b\,d}+$$

$$\frac{2\,\left(143\,A\,b^2+15\,a^2\,C+121\,b^2\,C\right)\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{1287\,d}+$$

$$\frac{10\,a\,C\,\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{143\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{13\,d}$$

$$\int\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$-\left(2\,a\,(a+b)\,\left(99\,a^2\,A\,b^2+957\,A\,b^4+8\,a^4\,C+51\,a^2\,b^2\,C+741\,b^4\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(693\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{693\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(99\,a^3\,A\,b^2+891\,a^2\,A\,b^3+957\,a\,A\,b^4+165\,A\,b^5+8\,a^5\,C+2\,a^4\,b\,C+51\,a^3\,b^2\,C+663\,a^2\,b^3\,C+741\,a\,b^4\,C+135\,b^5\,C\right)$$

$$\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\,a\,\left(99\,a^2\,A\,b^2+957\,A\,b^4+8\,a^4\,C+51\,a^2\,b^2\,C+741\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{693\,b^3\,d}+$$

$$\frac{2\,\left(297\,a^2\,A\,b^2+165\,A\,b^4-4\,a^4\,C+205\,a^2\,b^2\,C+135\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{693\,b^2\,d}+$$

$$\frac{2\,a\,\left(297\,A\,b^2+3\,a^2\,C+229\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{693\,b\,d}+$$

$$\frac{2\,\left(33\,A\,b^2+5\,a^2\,C+27\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{231\,d}+$$

$$\frac{10\,a\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{99\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{11\,d}$$

$$\int \text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$-\left(2\,(a+b)\,\left(483\,a^2\,A\,b^2+189\,A\,b^4-10\,a^4\,C+279\,a^2\,b^2\,C+147\,b^4\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(315\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{315\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(315\,a^3\,A\,b+483\,a^2\,A\,b^2+357\,a\,A\,b^3+189\,A\,b^4-10\,a^4\,C+155\,a^3\,b\,C+279\,a^2\,b^2\,C+261\,a\,b^3\,C+147\,b^4\,C\right)$$

$$\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\,\left(483\,a^2\,A\,b^2+189\,A\,b^4-10\,a^4\,C+279\,a^2\,b^2\,C+147\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{315\,b^2\,d}+$$

$$\frac{2\,a\,\left(231\,A\,b^2+5\,a^2\,C+163\,b^2\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,b\,d}+$$

$$\frac{2\,\left(63\,A\,b^2+15\,a^2\,C+49\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{315\,d}+$$

$$\frac{10\,a\,C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{63\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{9\,d}$$

$$\int \text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$-\frac{2\,a\,(a+b)\,\left(49\,A\,b^2+3\,a^2\,C+29\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{21\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\,\left(21\,a^3\,A-63\,a^2\,A\,b-49\,a\,A\,b^2-7\,A\,b^3-3\,a^3\,C-27\,a^2\,b\,C-29\,a\,b^2\,C-5\,b^3\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(21\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{4\,a^3\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,a\,\left(49\,A\,b^2+3\,a^2\,C+29\,b^2\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{21\,b\,d}+$$

$$\frac{2\,\left(7\,A\,b^2+3\,a^2\,C+5\,b^2\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{21\,d}+$$

$$\frac{2\,a\,C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{7\,d}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\int (a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{(a+b)\left(15\,a^2\,A-30\,A\,b^2-46\,a^2\,C-18\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\left(45\,a^2\,A\,b-45\,a\,A\,b^2-15\,A\,b^3-15\,a^3\,C-23\,a^2\,b\,C-17\,a\,b^2\,C-9\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{10\,a^2\,A\,b\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{d}-\frac{\left(15\,a^2\,A-30\,A\,b^2-46\,a^2\,C-18\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,d}-$$

$$\frac{a\,b\,(15\,A-16\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}-\frac{b\,(5\,A-2\,C)\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\int\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{a\,b\,(a+b)\,(27\,A-56\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{12\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(\left(6\,a^3\,A-3\,a^2\,A\,b+36\,a\,A\,b^2-12\,A\,b^3+12\,a^3\,C-36\,a^2\,b\,C-28\,a\,b^2\,C-4\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(6\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{a\left(4\,a^2\,A+15\,A\,b^2+8\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{5\,A\,b\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{a\,b\,(27\,A-56\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{12\,d}-\frac{b^2\,(21\,A-8\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{12\,d}$$

$$\frac{1}{2}\left(\left((a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(i\,a\,(a-b)\,b\,(27\,A-56\,C)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.\right.\right.$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\left(3\,a\,b\,(A-8\,C)+4\,b^2\,(3\,A+C)+6\,a^2\,(A+2\,C)\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$a\left(b\sqrt{\frac{-a+b}{a+b}}\,(27\,A-56\,C)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)+\right.$$

$$6\,i\left(15\,A\,b^2+4\,a^2\,(A+2\,C)\right)\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\left.\left.\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\right)\right)\Bigg/$$

$$\left(6\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right.$$

$$\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)+$$

$$\left.\frac{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(\frac{28}{3}\,a\,b\,C\,\mathrm{Sin}[c+d\,x]+\frac{1}{2}\,a^2\,A\,\mathrm{Sin}[2\,(c+d\,x)]+\frac{4}{3}\,b^2\,C\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2}\right)$$

Unable to integrate:

$$\left\{\mathrm{Cos}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\left(16a^2A+33Ab^2+24a^2C-48b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{24d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(b\left(38a^2A-13aAb+24Ab^2+72a^2C-72abC-24b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(12d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{5b\left(4a^2A+Ab^2+8a^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{\left(16a^2A+15Ab^2+24a^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{24d}+\frac{5Ab\,\text{Cos}[c+dx](a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{12d}+$$

$$\frac{A\,\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{3d}-\frac{\left(16a^2A+33Ab^2+24a^2C-48b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{24d}$$

$$\int\text{Cos}[c+dx]^3(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx]^4(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+C\,\text{Sec}[c+dx]^2\right),x,10,0\right\}$$

$$\frac{b(a+b)\left(284a^2A+15Ab^2+432a^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{192ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(\left(72a^3A-36a^2Ab+322aAb^2-59Ab^3+96a^3C-48a^2bC+576ab^2C-192b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(96d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\left(\left(48a^4A+120a^2Ab^2-5Ab^4+64a^4C+240a^2b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(32ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{\left(12a^2A+5Ab^2+16a^2C\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{32d}+\frac{5Ab\,\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{24d}+$$

$$\frac{A\,\text{Cos}[c+dx]^3(a+b\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{4d}+$$

$$\frac{b\left(284a^2A+15Ab^2+432a^2C\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{192ad}$$

$$\int\text{Cos}[c+dx]^4(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{4\,a\,(a+b)\,\left(35\,A\,b^2+24\,a^2\,C+22\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{105\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\,\left(70\,a\,A\,b^2-35\,A\,b^3+48\,a^3\,C+12\,a^2\,b\,C+44\,a\,b^2\,C-25\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{4\,a\,\left(35\,A\,b^2+24\,a^2\,C+22\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^4\,d}+$$

$$\frac{2\,\left(35\,A\,b^2+24\,a^2\,C+25\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^3\,d}-$$

$$\frac{12\,a\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b^2\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]^3\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(15\,A\,b^2+8\,a^2\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{15\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(15\,A\,b^2+8\,a^2\,C+2\,a\,b\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{15\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(15\,A\,b^2+8\,a^2\,C+9\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^3\,d}-$$

$$\frac{8\,a\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,b^2\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{5\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 6,\ 0\right\}$$

$$\frac{4\,a\,(a+b)\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,A\,b-2\,a\,C+b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{4\,a\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b^2\,d}+\frac{2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A-C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b\,d}$$

$$\int\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$\frac{A\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,A\,b\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d}$$

$$\int \frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$-\frac{3\,A\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a\,A-A\,b+4\,a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A+3\,A\,b^2+8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a\,d}-\frac{3\,A\,b\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a^2\,d}$$

$$\frac{A\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Sin}[2\,(c+d\,x)]}{4\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\Bigg(\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$6\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+8\,i\,a^2\,A\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$3\,i\,A\,(a-b)\,b\,\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}$$

$$\Big(1+\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2\Big)\sqrt{\frac{a+b-a\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2+b\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]^2}{a+b}}-$$

$$2\,i\,\big(-a\,A\,b+3\,A\,b^2+2\,a^2\,(A+2\,C)\big)\,\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\Big[\frac{1}{2}(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(4\,a^2\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\left(16\,a^2\,A+15\,A\,b^2+24\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{24\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{A\,b\,(2\,a+5\,b)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{12\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{b\left(4\,a^2\,A+5\,A\,b^2+8\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{4\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{5\,A\,b\,\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,a^2\,d}+\frac{A\,\text{Cos}[c+d\,x]^2\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}+$$

$$\frac{\left(16\,a^2\,A+15\,A\,b^2+24\,a^2\,C\right)\text{Cos}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{24\,a^3\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\left(\frac{A\,\text{Sin}[c+d\,x]}{12\,a}-\frac{5\,A\,b\,\text{Sin}[2\,(c+d\,x)]}{24\,a^2}+\frac{A\,\text{Sin}[3\,(c+d\,x)]}{12\,a}\right)}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right.$$

$$\Big(16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 15 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] +$$

$$15 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 24 a^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] + 24 a^2 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big] -$$

$$32 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 - 30 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 - 48 a^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^3 +$$

$$16 a^3 A \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 16 a^2 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 15 a A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 -$$

$$15 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 + 24 a^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 - 24 a^2 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^5 +$$

$$24 i a^2 A b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} + 30 i A b^3 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big] \sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$48 i a^2 b C \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big]$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$24 i a^2 A b \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2 + b \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2}{a+b}} +$$

$$30 i A b^3 \operatorname{EllipticPi}\Big[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]\Big], \frac{a+b}{a-b}\Big] \operatorname{Tan}\Big[\frac{1}{2}(c+d x)\Big]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^2\,b\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\left(15\,A\,b^2+8\,a^2\,(2\,A+3\,C)\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,b\left(-5\,a\,A\,b+15\,A\,b^2+2\,a^2\,(7\,A+12\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(24\,a^3\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\text{Sec}[c+d x]}\,\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d x]^3\left(A+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^{3/2}},\,x,\,8,\,0\right\}$$

$$-\left(2\left(10a^2Ab^2-5Ab^4+16a^4C-8a^2b^2C-3b^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(5(a-b)b^4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\left(2\left(10aAb^2-5Ab^3+16a^3C-12a^2bC+4ab^2C-3b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(5(a-b)b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{2\left(10a^2Ab^2-5Ab^4+16a^4C-8a^2b^2C-3b^4C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{5b^4\left(a^2-b^2\right)d}-$$

$$\frac{2\left(Ab^2+a^2C\right)\text{Sec}[c+dx]^2\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2a\left(5Ab^2+8a^2C-3b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5b^3\left(a^2-b^2\right)d}+$$

$$\frac{2\left(5Ab^2+6a^2C-b^2C\right)\text{Sec}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5b^2\left(a^2-b^2\right)d}$$

$$\int\frac{\text{Sec}[c+dx]^3\left(A+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+dx]^2\left(A+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{3/2}},x,7,0\right\}$$

$$\frac{2a\left(3Ab^2+8a^2C-5b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(3Ab^2+8a^2C-6abC+b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2a\left(3Ab^2+8a^2C-5b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3b^3\left(a^2-b^2\right)d}-$$

$$\frac{2\left(Ab^2+a^2C\right)\text{Sec}[c+dx]\,\text{Tan}[c+dx]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+dx]}}+\frac{2\left(3Ab^2+4a^2C-b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{3b^2\left(a^2-b^2\right)d}$$

$$\int\frac{\text{Sec}[c+dx]^2\left(A+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+dx]\left(A+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{3/2}},x,6,0\right\}$$

$$-\frac{2\left(A b^2+2 a^2 C-b^2 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,b^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\,(A b+2 a C-b C)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,b\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2+2 a^2 C-b^2 C\right)\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{b^2\left(a^2-b^2\right)d}-\frac{2\left(A b^2+a^2 C\right)\text{Tan}[c+d x]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+d x]}}$$

$$\int\frac{\text{Sec}[c+d x]\left(A+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+C\,\text{Sec}[c+d x]^2}{(a+b\,\text{Sec}[c+d x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(A b^2+a^2 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,(a-b)\,b\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\,(A+C)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{(a-b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{4 A\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-\frac{2\left(A b^2+a^2 C\right)\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{a\,b\,(a+b)\,d\sqrt{a+b\,\text{Sec}[c+d x]}}$$

$$\int\frac{A+C\,\text{Sec}[c+d x]^2}{(a+b\,\text{Sec}[c+d x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d x]\left(A+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2 A-3 A b^2-2 a^2 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2\,(a-b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\,(A b+a C)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a\,(a-b)\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{6 A b\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2+a^2 C\right)\text{Sin}[c+d x]}{a\left(a^2-b^2\right)d\sqrt{a+b\,\text{Sec}[c+d x]}}+\frac{\left(a^2 A-3 A b^2-2 a^2 C\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{a^2\left(a^2-b^2\right)d}$$

$$\int\frac{\text{Cos}[c+d x]\left(A+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^{3/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 9,\ 0\right\}$$

$$-\frac{b\,\left(7\,a^2\,A-15\,A\,b^2-8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,a^3\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2\,a^2\,A-3\,a\,A\,b+5\,A\,b^2+4\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a^2\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A+15\,A\,b^2+8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(A\,b^2+a^2\,C\right)\,\text{Cos}[c+d\,x]\,\text{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{\left(a^2\,A-5\,A\,b^2-4\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a^2\,\left(a^2-b^2\right)\,d}-$$

$$\frac{b\,\left(7\,a^2\,A-15\,A\,b^2-8\,a^2\,C\right)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a^3\,\left(a^2-b^2\right)\,d}$$

$$\frac{(b+a\,\text{Cos}[c+d\,x])^2\,\text{Sec}[c+d\,x]^2\,\left(\frac{2\,b\,\left(A\,b^2+a^2\,C\right)\,\text{Sin}[c+d\,x]}{a^3\,\left(-a^2+b^2\right)}-\frac{2\,\left(A\,b^4\,\text{Sin}[c+d\,x]+a^2\,b^2\,C\,\text{Sin}[c+d\,x]\right)}{a^3\,\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])}+\frac{A\,\text{Sin}[2\,(c+d\,x)]}{4\,a^2}\right)}{d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\Bigg((b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(-7\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-7\,a^2\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+15\,a\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$15\,A\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+8\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+8\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$14\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-30\,a\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$16\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-7\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+7\,a^2\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$15\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+8\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$8\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-16\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$30\, i\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\, (a-b)\, b\, \left(-15\, A\, b^2+a^2\, (7\, A-8\, C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$2\, i\, (a-b)\, \left(10\, a\, A\, b^2+15\, A\, b^3+2\, a^3\, (A+2\, C)+a^2\, b\, (A+8\, C)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg) \Bigg/$$

$$\Bigg(4\, a^3 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right) d\, (a+b\, \text{Sec}[c+d x])^{3/2} \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d x]^3\, \left(A+C\, \text{Sec}[c+d x]^2\right)}{(a+b\, \text{Sec}[c+d x])^{5/2}}, x, 8, 0\right\}$$

$$\frac{4 a \left(a^2 A b^2-3 A b^4+8 a^4 C-14 a^2 b^2 C+4 b^4 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2 b^4 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}$$

$$-\left(2\left(2 a^2 A b^2-3 a A b^3-3 A b^4+16 a^4 C-12 a^3 b C-16 a^2 b^2 C+9 a b^3 C-b^4 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(3(a-b)^2 b^3 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\frac{4 a \left(a^2 A b^2-3 A b^4+8 a^4 C-14 a^2 b^2 C+4 b^4 C\right) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 b^4 \left(a^2-b^2\right)^2 d}-$$

$$\frac{2\left(A b^2+a^2 C\right) \text{Sec}[c+d x]^2 \text{Tan}[c+d x]}{3 b\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+\frac{4\left(2 A b^4-3 a^4 C+5 a^2 b^2 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{3 b^2\left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(a^2 A b^2-5 A b^4+8 a^4 C-13 a^2 b^2 C+b^4 C\right) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}[c+d x]}{3 b^3\left(a^2-b^2\right)^2 d}$$

$$\int \frac{\text{Sec}[c+d x]^3\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}} \, dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d x]^2\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}}, x, 7, 0\right\}$$

$$\frac{2\left(a^2 A b^2+3 A b^4-8 a^4 C+15 a^2 b^2 C-3 b^4 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3(a-b)^2 b^3 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\left(2\left(a A b^2+3 A b^3-8 a^3 C+6 a^2 b C+9 a b^2 C-3 b^3 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(3(a-b)^2 b^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\frac{2\left(a^2 A b^2+3 A b^4-8 a^4 C+15 a^2 b^2 C-3 b^4 C\right) \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 b^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{2\left(A b^2+a^2 C\right) \text{Sec}[c+d x] \text{Tan}[c+d x]}{3 b\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+\frac{4\left(a^2 A b^2+A b^4-2 a^4 C+4 a^2 b^2 C\right) \text{Tan}[c+d x]}{3 b^2\left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}$$

$$\int \frac{\text{Sec}[c+d x]^2\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}} \, dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d x]\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}}, x, 6, 0\right\}$$

$$-\frac{4\,a\,\left(2\,A\,b^2-a^2\,C+3\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(3\,a\,A\,b+A\,b^2-2\,a^2\,C+3\,a\,b\,C+3\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,a\,\left(2\,A\,b^2-a^2\,C+3\,b^2\,C\right)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,(a-b)\,b^2\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\,\left(A\,b^2+a^2\,C\right)\,\text{Tan}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\int\frac{\text{Sec}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,8,\,0\right\}$$

$$\frac{2\,\left(7\,a^2\,A\,b^2-3\,A\,b^4+a^4\,C+3\,a^2\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,a^2\,(a-b)^2\,b\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(3\,a^2\,A+3\,a\,A\,b-2\,A\,b^2+a^2\,C+3\,a\,b\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,a\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(7\,a^2\,A\,b^2-3\,A\,b^4+a^4\,C+3\,a^2\,b^2\,C\right)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,a^2\,(a-b)\,b\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,\left(A\,b^2+a^2\,C\right)\,\text{Tan}[c+d\,x]}{3\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\int\frac{A+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,9,\,0\right\}$$

$$\frac{\left(3 a^4 A-26 a^2 A b^2+15 A b^4-8 a^4 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3 a^3 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(6 a^2 A b+3 a A b^2-5 A b^3+3 a^3 C+a^2 b C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3 a^2 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{10 A b \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2+a^2 C\right) \text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+\frac{2\left(9 a^2 A b^2-5 A b^4+3 a^4 C+a^2 b^2 C\right) \text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(3 a^4 A-26 a^2 A b^2+15 A b^4-8 a^4 C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3 a^3\left(a^2-b^2\right)^2 d}$$

$$\int \frac{\text{Cos}[c+d x]\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}} dx$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^2\left(A+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{5/2}}, x, 10, 0\right\}$$

$$-\left(b\left(33 a^4 A-170 a^2 A b^2+105 A b^4-56 a^4 C+24 a^2 b^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(12 a^4 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\left(\left(6 a^4 A-9 a^3 A b+33 a^2 A b^2+21 a A b^3-35 A b^4+12 a^4 C+12 a^3 b C-8 a^2 b^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(6 a^3 (a-b)^2 (a+b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\frac{\left(4 a^2 A+35 A b^2+8 a^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^4 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2+a^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^{3/2}}+$$

$$\frac{2\left(11 a^2 A b^2-7 A b^4+5 a^4 C-a^2 b^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(3 a^4 A-54 a^2 A b^2+35 A b^4-24 a^4 C+8 a^2 b^2 C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{6 a^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{b\left(33 a^4 A-170 a^2 A b^2+105 A b^4-56 a^4 C+24 a^2 b^2 C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{12 a^4\left(a^2-b^2\right)^2 d}$$

$$\frac{1}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(\frac{2\,b\,\left(-13\,a^2\,A\,b^2+9\,A\,b^4-7\,a^4\,C+3\,a^2\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{3\,a^4\,\left(-a^2+b^2\right)^2}+\frac{2\,\left(A\,b^5\,\mathrm{Sin}[c+d\,x]+a^2\,b^3\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^4\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}-\right.$$

$$\left.\frac{4\,\left(-7\,a^2\,A\,b^4\,\mathrm{Sin}[c+d\,x]+5\,A\,b^6\,\mathrm{Sin}[c+d\,x]-4\,a^4\,b^2\,C\,\mathrm{Sin}[c+d\,x]+2\,a^2\,b^4\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^4\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{A\,\mathrm{Sin}[2\,(c+d\,x)]}{4\,a^3}\right)-$$

$$\left((b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\left(\frac{a^2\,A}{2\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,b^2}{\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\right.\right.$$

$$\frac{7\,A\,b^4}{6\,a^2\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,C}{\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b^2\,C}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{9\,a\,A\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{31\,A\,b^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{12\,a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{35\,A\,b^5\,\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,a^3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{a\,b\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{b^3\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{11\,a\,A\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{85\,A\,b^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{12\,a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\left.\frac{35\,A\,b^5\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,a^3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{7\,a\,b\,C\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{b^3\,C\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,\left(-a^2+b^2\right)^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\right)$$

$$\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\left(33\,a^5\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+33\,a^4\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-170\,a^3\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-\right.$$

$$170\,a^2\,A\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+105\,a\,A\,b^5\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+105\,A\,b^6\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$56\,a^5\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-56\,a^4\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+24\,a^3\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$24\,a^2\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-66\,a^5\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+340\,a^3\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$210\, a\, A\, b^5 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3 + 112\, a^5\, b \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3 - 48\, a^3\, b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3 +$$

$$33\, a^5\, A\, b \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 33\, a^4\, A\, b^2 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 170\, a^3\, A\, b^3 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 +$$

$$170\, a^2\, A\, b^4 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 105\, a\, A\, b^5 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 105\, A\, b^6 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 -$$

$$56\, a^5\, b \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 56\, a^4\, b^2 \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 24\, a^3\, b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 -$$

$$24\, a^2\, b^4 \sqrt{\frac{-a+b}{a+b}}\, C\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 24\, i\, a^6\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$162\, i\, a^4\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$396\, i\, a^2\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$210\, i\, A\, b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} + 48\, i\, a^6\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$96\, i\, a^4 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^2 b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 24\, i\, a^6 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162\, i\, a^4 A b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$396\, i\, a^2 A b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210\, i\, A b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^6 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96\, i\, a^4 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^2 b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\,(a-b)\, b\left(105 A b^4 + a^4 (33 A - 56 C) + 2 a^2 b^2 (-85 A + 12 C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$2\, i\,(a-b)\left(-70 a A b^4 - 105 A b^5 + 4 a^3 b^2 (15 A - 4 C) + 6 a^2 b^3 (19 A - 4 C) + 6 a^5 (A + 2 C) + 3 a^4 b (A + 12 C)\right)$$

$$\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(12 a^4 \sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)$$

$$\left(\left(a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right.$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(33\,a^5\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.$$

$$33\,a^4\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-170\,a^3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-170\,a^2\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$105\,a\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+105\,A\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-56\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$56\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+24\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+24\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$66\,a^5\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+340\,a^3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-210\,a\,A\,b^5\sqrt{\frac{-a+b}{a+b}}$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+112\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-48\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$33\,a^5\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-33\,a^4\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-170\,a^3\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+$$

$$170\,a^2\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+105\,a\,A\,b^5\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-105\,A\,b^6\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$56\,a^5\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+56\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+24\,a^3\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$24\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+24\,i\,a^6\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$162\, i\, a^4 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 396\, i\, a^2 A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210\, i\, A b^6 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48\, i\, a^6 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96\, i\, a^4 b^2 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48\, i\, a^2 b^4 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24\, i\, a^6 A \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162\, i\, a^4 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$396\,i\,a^2 A b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$210\,i\,A b^6\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^6 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$96\,i\,a^4 b^2 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+48\,i\,a^2 b^4 C$$

$$\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)\,b\left(105\,A b^4+a^4(33\,A-56\,C)+2\,a^2 b^2(-85\,A+12\,C)\right)$$

$$\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-2\,i\,(a-b)\left(-70\,a A b^4-105\,A b^5+4\,a^3 b^2(15\,A-4\,C)+\right.$$

$$6 a^2 b^3 (19 A - 4 C) + 6 a^5 (A + 2 C) + 3 a^4 b (A + 12 C)) \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(12 a^4 \sqrt{\frac{-a+b}{a+b}} \left(a^2-b^2\right)^2 \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)^2\Bigg)+$$

$$\Bigg(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg(33 a^5 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$33 a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-170 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-170 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$105 a A b^5 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]+105 A b^6 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]-56 a^5 b \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$56 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]+24 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]+24 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$66 a^5 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+340 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-210 a A b^5 \sqrt{\frac{-a+b}{a+b}}$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+112 a^5 b \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-48 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+$$

$$33 a^5 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-33 a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-170 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+$$

$$170 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+105 a A b^5 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-105 A b^6 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$56 a^5 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 56 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$24 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24 i a^6 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162 i a^4 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 396 i a^2 A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210 i A b^6 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48 i a^6 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96 i a^4 b^2 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48 i a^2 b^4 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24 i a^6 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$162\,i\,a^4\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$396\,i\,a^2\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$210\,i\,A\,b^6\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^6\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$96\,i\,a^4\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^2\,b^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)\,b$$

$$\left(105 A b^4+a^4 (33 A-56 C)+2 a^2 b^2 (-85 A+12 C)\right) \text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2} \left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{a+b}}-$$

$$2 i (a-b) \left(-70 a A b^4-105 A b^5+4 a^3 b^2 (15 A-4 C)+6 a^2 b^3 (19 A-4 C)+6 a^5 (A+2 C)+3 a^4 b (A+12 C)\right)$$

$$\text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}$$

$$\left.\left.\left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right) \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{a+b}}\right)\right) \Big/$$

$$\left(24 a^4 \sqrt{\frac{-a+b}{a+b}} \left(a^2-b^2\right)^2 \left(-1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right)^2 \sqrt{\frac{1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}\right.$$

$$\left.\left(a \left(-1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)-b \left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)\right)\right)+$$

$$\left(\text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{\frac{a+b-a \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}} \left(33 a^5 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+\right.\right.$$

$$33 a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]-170 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]-170 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+$$

$$105 a A b^5 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+105 A b^6 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]-56 a^5 b \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]-$$

$$56 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]+24 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]+24 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]-$$

$$66 a^5 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3+340 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-210 a A b^5 \sqrt{\frac{-a+b}{a+b}}$$

$$\text{Tan}\left[\frac{1}{2} (c+d x)\right]^3+112 a^5 b \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-48 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3+$$

$$33 a^5 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 33 a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 170 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$170 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 105 a A b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 105 A b^6 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$56 a^5 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 56 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$24 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24 i a^6 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162 i a^4 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 396 i a^2 A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210 i A b^6 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48 i a^6 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96 i a^4 b^2 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 48 i a^2 b^4 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^6\,A\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$162\,i\,a^4\,A\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$396\,i\,a^2\,A\,b^4\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$210\,i\,A\,b^6\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^6\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$96\,i\,a^4\,b^2\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\, i\, a^2 b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - i\,(a-b)\, b$$

$$\left(105 A b^4 + a^4 (33 A - 56 C) + 2 a^2 b^2 (-85 A + 12 C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$2 i\,(a-b)\left(-70 a A b^4 - 105 A b^5 + 4 a^3 b^2 (15 A - 4 C) + 6 a^2 b^3 (19 A - 4 C) + 6 a^5 (A + 2 C) + 3 a^4 b (A + 12 C)\right)$$

$$\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left.\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\right) \Big/$$

$$\left(24 a^4 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right)^2 \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)^2 \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right) +$$

$$\left(\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\, \left(\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} + \right.\right.$$

$$\left.\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)$$

$$\left(33 a^5 A b \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 33 a^4 A b^2 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right] - 170 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right] - \right.$$

$$170\, a^2 A b^4 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] + 105\, a A b^5 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] + 105\, A b^6 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] -$$

$$56\, a^5 b \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] - 56\, a^4 b^2 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] + 24\, a^3 b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] +$$

$$24\, a^2 b^4 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right] - 66\, a^5 A b \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 340\, a^3 A b^3 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$210\, a A b^5 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 112\, a^5 b \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$48\, a^3 b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 33\, a^5 A b \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 33\, a^4 A b^2 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$170\, a^3 A b^3 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 170\, a^2 A b^4 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$105\, a A b^5 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 105\, A b^6 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 56\, a^5 b \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$56\, a^4 b^2 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24\, a^3 b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$24\, a^2 b^4 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24\, i\, a^6 A\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162\, i\, a^4 A b^2\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$396\, i\, a^2 A b^4\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210\, i\, A\, b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^6\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96\, i\, a^4\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^2\, b^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24\, i\, a^6\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162\, i\, a^4\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$396\, i\, a^2\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$210\,i\,A\,b^6\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^6\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$96\,i\,a^4\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^2\,b^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)\,b$$

$$\left(105\,A\,b^4+a^4\,(33\,A-56\,C)+2\,a^2\,b^2\,(-85\,A+12\,C)\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\left(-70\,a\,A\,b^4-105\,A\,b^5+4\,a^3\,b^2\,(15\,A-4\,C)+6\,a^2\,b^3\,(19\,A-4\,C)+6\,a^5\,(A+2\,C)+3\,a^4\,b\,(A+12\,C)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(24 a^4\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^2\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)^{3/2}$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)-$$

$$\Bigg(\Bigg(\frac{-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}-$$

$$\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\Bigg)$$

$$\Bigg(33 a^5 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+33 a^4 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-170 a^3 A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$170 a^2 A b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+105 a A b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+105 A b^6\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$56 a^5 b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-56 a^4 b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+24 a^3 b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$24 a^2 b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-66 a^5 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+340 a^3 A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$210 a A b^5\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+112 a^5 b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$48 a^3 b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+33 a^5 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-33 a^4 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$170 a^3 A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+170 a^2 A b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+$$

$$105\, a\, A\, b^5 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 105\, A\, b^6 \sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 - 56\, a^5\, b \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 +$$

$$56\, a^4\, b^2 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 24\, a^3\, b^3 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 -$$

$$24\, a^2\, b^4 \sqrt{\frac{-a+b}{a+b}}\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5 + 24\, i\, a^6\, A\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$162\, i\, a^4\, A\, b^2\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$396\, i\, a^2\, A\, b^4\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$210\, i\, A\, b^6\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} +$$

$$48\, i\, a^6\, C\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} -$$

$$96\, i\, a^4\, b^2\, C\, \mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^2 b^4 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^6 A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$162\,i\,a^4 A b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$396\,i\,a^2 A b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$210\,i\,A b^6\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^6 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$96\, i\, a^4 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^2 b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - i\,(a-b)\, b$$

$$\left(105 A b^4 + a^4 (33 A - 56 C) + 2 a^2 b^2 (-85 A + 12 C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$2\, i\,(a-b)\left(-70 a A b^4 - 105 A b^5 + 4 a^3 b^2 (15 A - 4 C) + 6 a^2 b^3 (19 A - 4 C) + 6 a^5 (A + 2 C) + 3 a^4 b (A + 12 C)\right)$$

$$\text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg) \Bigg/$$

$$\Bigg(24 a^4 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right)^2 \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg) -$$

$$\Bigg(\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \Bigg(\frac{33}{2} a^5 A b \sqrt{\frac{-a+b}{a+b}}\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$\frac{33}{2} a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 - 85 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$85 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 + \frac{105}{2} a A b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 + \frac{105}{2} A b^6 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$28 a^5 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 - 28 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 + 12 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$12 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 - 99 a^5 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$510 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 315 a A b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$168 a^5 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 72 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$\frac{165}{2} a^5 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - \frac{165}{2} a^4 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$425 a^3 A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 425 a^2 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$\frac{525}{2} a A b^5 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - \frac{525}{2} A b^6 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$140 a^5 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 140 a^4 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$60 a^3 b^3 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 60 a^2 b^4 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$\left(12 i a^6 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1 - \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(81\,i\,a^4\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-\left(198\,i\,a^2\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\right.\right.$$

$$\left.\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(105\,i\,A\,b^6\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+\left(24\,i\,a^6\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\right.\right.$$

$$\left.\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(48\, i\, a^4 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) + \left(24\, i\, a^2 b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\right.\right.$$

$$\left.\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/ \left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) +$$

$$\left(12\, i\, a^6 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) +$$

$$\left(81\, i\, a^4 A b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) -$$

$$\left(198\, i\, a^2 A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) +$$

$$\left(105\, i\, A b^6 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) +$$

$$\left(24\, i\, a^6 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) -$$

$$\left(48\, i\, a^4 b^2 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \right.$$

$$\left.\left(-a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(24\,i\,a^2\,b^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(i\,(a-b)\,b\,\left(105\,A\,b^4+a^4\,(33\,A-56\,C)+2\,a^2\,b^2\,(-85\,A+12\,C)\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.\right.$$

$$\left.\frac{a+b}{a-b}\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left.\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Big/\left(2\,(a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(i\,(a-b)\,\left(-70\,a\,A\,b^4-105\,A\,b^5+4\,a^3\,b^2\,(15\,A-4\,C)+6\,a^2\,b^3\,(19\,A-4\,C)+6\,a^5\,(A+2\,C)+3\,a^4\,b\,(A+12\,C)\right)\right.$$

$$\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.$$

$$\left.\left.b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Big/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$12\, i\, a^6\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} - \frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$81\, i\, a^4\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} + \frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$198\, i\, a^2\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} - \frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$105\, i\, A\, b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} - \frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$24\, i\, a^6\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}} + \frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$48\, i\, a^4\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$24\,i\,a^2\,b^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$12\,i\,a^6\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$81\,i\,a^4\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$198\,i\,a^2\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$105\,i\,A\,b^6\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$24\,i\,a^6\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$48\,i\,a^4\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$24\,i\,a^2\,b^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-i\,(a-b)\,b$$

$$\left(105\,A\,b^4+a^4\,(33\,A-56\,C)+2\,a^2\,b^2\,(-85\,A+12\,C)\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\left(-70\,a\,A\,b^4-105\,A\,b^5+4\,a^3\,b^2\,(15\,A-4\,C)+6\,a^2\,b^3\,(19\,A-4\,C)+6\,a^5\,(A+2\,C)+3\,a^4\,b\,(A+12\,C)\right)$$

$$\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\, i\, a^6\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$162\, i\, a^4\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$396\, i\, a^2\, A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$210\, i\, A\, b^6\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^6\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$96\, i\, a^4\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48\, i\, a^2\, b^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$\frac{1}{2\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\,i\,(a-b)\,b\left(105 A b^4+a^4(33 A-56 C)+2 a^2 b^2(-85 A+12 C)\right)$$

$$\operatorname{EllipticE}\left[i\operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$i\,(a-b)\left(-70 a A b^4-105 A b^5+4 a^3 b^2(15 A-4 C)+6 a^2 b^3(19 A-4 C)+6 a^5(A+2 C)+3 a^4 b(A+12 C)\right)$$

$$\operatorname{EllipticF}\left[i\operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\left((a-b)\sqrt{\frac{-a+b}{a+b}}\right.$$

$$\left(-70 a A b^4-105 A b^5+4 a^3 b^2(15 A-4 C)+6 a^2 b^3(19 A-4 C)+6 a^5(A+2 C)+3 a^4 b(A+12 C)\right)\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left.\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{1+\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)-$$

$$\frac{12 a^6 A\sqrt{\frac{-a+b}{a+b}}\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}-$$

$$\frac{81\,a^4\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{198\,a^2\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{105\,A\,b^6\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{24\,a^6\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{48\,a^4\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{24\,a^2\,b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{12\,a^6\,A\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{81\,a^4\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{198\,a^2\,A\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{105\,A\,b^6\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{24\,a^6\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{48\,a^4\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{24\,a^2\,b^4\,\sqrt{\frac{-a+b}{a+b}}\;C\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{1}{2\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}\,(a-b)\,b\,\sqrt{\frac{-a+b}{a+b}}\,\left(105\,A\,b^4+a^4\,(33\,A-56\,C)+2\,a^2\,b^2\,(-85\,A+12\,C)\right)$$

$$\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\Bigg)\Bigg)\Bigg/$$

$$\left(12\,a^4\,\sqrt{\frac{-a+b}{a+b}}\,\left(a^2-b^2\right)^2\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{\frac{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\right)\Bigg)\Bigg)$$

Unable to integrate:

$$\left\{\frac{A+C\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}},\ x,\ 9,\ 0\right\}$$

$$\left(2\left(58a^4Ab^2-41a^2Ab^4+15Ab^6+3a^6C+29a^4b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(15a^3(a-b)^3b(a+b)^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-$$

$$\left(2\left(15a^4A+30a^3Ab-17a^2Ab^2-6aAb^3+10Ab^4+3a^4C+24a^3bC+5a^2b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(15a^2(a-b)^3(a+b)^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{4A\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(58a^4Ab^2-41a^2Ab^4+15Ab^6+3a^6C+29a^4b^2C\right)\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{15a^3(a-b)^2b(a+b)^3d\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2+a^2C\right)\text{Tan}[c+dx]}{5a\left(a^2-b^2\right)d(a+b\,\text{Sec}[c+dx])^{5/2}}+\frac{2\left(13a^2Ab^2-5Ab^4+3a^4C+5a^2b^2C\right)\text{Tan}[c+dx]}{15a^2\left(a^2-b^2\right)^2d(a+b\,\text{Sec}[c+dx])^{3/2}}$$

$$\int\frac{A+C\,\text{Sec}[c+dx]^2}{(a+b\,\text{Sec}[c+dx])^{7/2}}\,dx$$

Unable to integrate:

$$\left\{(a+b\,\text{Sec}[c+dx])^{3/2}\left(a^2-b^2\,\text{Sec}[c+dx]^2\right),x,9,0\right\}$$

$$-\frac{2b(a+b)\left(4a^2-3b^2\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{5d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(5a^4-10a^3b-4a^2b^2+4ab^3+3b^4\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{5d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{4a^4\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2b\left(4a^2-3b^2\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{5d}-$$

$$\frac{2ab^2\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{5d}-\frac{2b^2(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Tan}[c+dx]}{5d}$$

$$\int(a+b\,\text{Sec}[c+dx])^{3/2}\left(a^2-b^2\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\sqrt{a+b\,\text{Sec}[c+dx]}\left(a^2-b^2\,\text{Sec}[c+dx]^2\right),x,8,0\right\}$$

$$\frac{2\,a\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(3\,a^3-3\,a^2\,b+a\,b^2+b^3\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,a^3\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,a\,b\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,d}-\frac{2\,b^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\int\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(a^2-b^2\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\frac{a^2-b^2\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$\frac{2\,b\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(a^2+b^2\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,a^2\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,b\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\int\frac{a^2-b^2\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{a^2-b^2\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\,x,\,8,\,0\right\}$$

$$\frac{4\,b\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{4\,b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{(a+b)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]\,(a-b\,\mathrm{Sec}[c+d\,x])\left(\frac{4\,b\,\mathrm{Sin}[c+d\,x]}{-a^2+b^2}-\frac{4\,b^2\,\mathrm{Sin}[c+d\,x]}{(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(-b+a\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\Bigg(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\sqrt{\mathrm{Sec}[c+d\,x]}\,(a-b\,\mathrm{Sec}[c+d\,x])$$

$$\Bigg(2\,i\,(a-b)\,b\,\mathrm{EllipticE}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\Big(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-i\,\left(a^2+2\,a\,b-3\,b^2\right)\mathrm{EllipticF}\Big[i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\,\Big(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-$$

$$2\Bigg(-i\,\left(a^2-b^2\right)\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}$$

$$\Big(1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}+$$

$$b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big(b-b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^4+a\,\Big(-1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2\Big)^2\Big)\Bigg)\Bigg)\Bigg)\Bigg)\Big/$$

$$\Bigg(\sqrt{\frac{-a+b}{a+b}}\,\left(a^2-b^2\right)d\,(-b+a\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\sqrt{\frac{1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}}\,\Big(-1+\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^4\Big)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{a^2-b^2\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}},\,x,\,9,\,0\right\}$$

$$\frac{2\,b\,\left(11\,a^2-3\,b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,a\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(3\,a^2+6\,a\,b-b^2\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,b\,\left(11\,a^2-3\,b^2\right)\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,a\,(a-b)\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{4\,b^2\,\text{Tan}[c+d\,x]}{3\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\left((b+a\,\text{Cos}[c+d\,x])^3\,\text{Sec}[c+d\,x]^2\,(a-b\,\text{Sec}[c+d\,x])\right.$$

$$\left.\left(\frac{2\,b\,\left(-11\,a^2+3\,b^2\right)\text{Sin}[c+d\,x]}{3\,a\,\left(-a^2+b^2\right)^2}+\frac{4\,b^3\,\text{Sin}[c+d\,x]}{3\,a\,\left(-a^2+b^2\right)\,(b+a\,\text{Cos}[c+d\,x])^2}-\frac{2\,\left(-13\,a^2\,b^2\,\text{Sin}[c+d\,x]+5\,b^4\,\text{Sin}[c+d\,x]\right)}{3\,a\,\left(-a^2+b^2\right)^2\,(b+a\,\text{Cos}[c+d\,x])}\right)\right)\Big/$$

$$\left(d\,(-b+a\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)+$$

$$\left(2\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Sec}[c+d\,x]^{3/2}\,(a-b\,\text{Sec}[c+d\,x])\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left(11\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+11\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-\right.$$

$$3\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-22\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+6\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$11\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-11\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$3\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-6\,i\,a^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$12\, i\, a^2 b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 6\, i\, b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$6\, i\, a^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$12\, i\, a^2 b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$6\, i\, b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\, b\left(11 a^3-11 a^2 b-3 a b^2+3 b^3\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$i\left(3 a^4+9 a^3 b-17 a^2 b^2-a b^3+6 b^4\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(3\,a\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)^2 d\,(-b+a\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right.$$

$$\left.\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\right)$$

Unable to integrate:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])},\ x,\ 7,\ 0\right\}$$

$$\frac{2\,A\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d}-\frac{2\,A\,b\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^2\,d}+$$

$$\frac{2\left(A\,b^2+a^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^2\,(a+b)\,d}$$

$$\int\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])}\,dx$$

Unable to integrate:

$$\left\{\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$\frac{2\,A\,(a+b)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,A\,b\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\int\frac{A+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{(4\,a\,B+3\,b\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{2\,(b\,B+a\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{(4\,a\,B+3\,b\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+$$

$$\frac{(4\,b\,B+a\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{a B \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}-\frac{3 b C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{a B \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{2 d}+\frac{3 b C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]}{8 d}+$$
$$\frac{b C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}+\frac{a B}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{3 b C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^4}-$$
$$\frac{a B}{4 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{3 b C}{16 d\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+$$
$$\frac{2 b B \operatorname{Tan}[c+d x]}{3 d}+\frac{2 a C \operatorname{Tan}[c+d x]}{3 d}+\frac{b B \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{3 d}+\frac{a C \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{3 d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \operatorname{Sec}[c+d x])\left(B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 4, 0\right\}$$
$$\frac{(2 a B+b C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{(2 b B+a C) \operatorname{Tan}[c+d x]}{2 d}+\frac{C(a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{2 d}$$
$$\frac{1}{4 d}\left(-2(2 a B+b C) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$4 a B \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+2 b C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+$$
$$\left.\frac{b C}{\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}-\frac{b C}{\left(\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right)^2}+4(b B+a C) \operatorname{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x](a+b \operatorname{Sec}[c+d x])\left(B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 4, 0\right\}$$
$$a B x+\frac{(b B+a C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{d}+\frac{b C \operatorname{Tan}[c+d x]}{d}$$
$$\frac{1}{d}\left(a B d x-(b B+a C) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+\right.$$
$$\left.b B \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+b C \operatorname{Tan}[c+d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^2(a+b \operatorname{Sec}[c+d x])\left(B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 4, 0\right\}$$
$$(b B+a C) x+\frac{b C \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{d}+\frac{a B \operatorname{Sin}[c+d x]}{d}$$
$$\frac{b B d x+a C d x-b C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+b C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+a B \operatorname{Sin}[c+d x]}{d}$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2),\ x,\ 5,\ 0\}$$

$$\frac{(8\,a\,b\,B+4\,a^2\,C+3\,b^2\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{(3\,a^2\,B+2\,b^2\,B+4\,a\,b\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{(16\,a\,b\,B+2\,a^2\,C+9\,b^2\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{24\,d}+\frac{(2\,b\,B+a\,C)\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{C\,\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{48\,d}\left(-6\,(8\,a\,b\,B+4\,a^2\,C+3\,b^2\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+6\,(8\,a\,b\,B+4\,a^2\,C+3\,b^2\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{3\,b^2\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{12\,a^2\,C+8\,a\,b\,(3\,B+C)+b^2\,(4\,B+9\,C)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{8\,b\,(b\,B+2\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{16\,(3\,a^2\,B+2\,b^2\,B+4\,a\,b\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-\frac{3\,b^2\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{8\,b\,(b\,B+2\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{12\,a^2\,C+8\,a\,b\,(3\,B+C)+b^2\,(4\,B+9\,C)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{16\,(3\,a^2\,B+2\,b^2\,B+4\,a\,b\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^2\,(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2),\ x,\ 5,\ 0\}$$

$$a^2\,B\,x+\frac{(4\,a\,b\,B+2\,a^2\,C+b^2\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{b\,(2\,b\,B+3\,a\,C)\,\text{Tan}[c+d\,x]}{2\,d}+\frac{b\,C\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}\left(4\,a^2\,B\,c+4\,a^2\,B\,d\,x-2\,(4\,a\,b\,B+2\,a^2\,C+b^2\,C)\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+8\,a\,b\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+4\,a^2\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+2\,b^2\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{b^2\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-\frac{b^2\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+4\,b\,(b\,B+2\,a\,C)\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2),\ x,\ 5,\ 0\}$$

$$(2\,a\,b\,B+a^2\,C)\,x+\frac{b\,(b\,B+2\,a\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{a\,B\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}-\frac{b\,(a\,B-b\,C)\,\text{Tan}[c+d\,x]}{d}$$

$$\frac{1}{d}\left(2\,a\,b\,B\,c+a^2\,c\,C+2\,a\,b\,B\,d\,x+a^2\,C\,d\,x-b^2\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\right.$$
$$2\,a\,b\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+b^2\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\left.2\,a\,b\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+a^2\,B\,\text{Sin}[c+d\,x]+b^2\,C\,\text{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\text{Sec}[c+d\,x])^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{\left(8\,a^3\,B+12\,a\,b^2\,B+12\,a^2\,b\,C+3\,b^3\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+$$
$$\frac{\left(44\,a^2\,b\,B+16\,b^3\,B+6\,a^3\,C+39\,a\,b^2\,C\right)\text{Tan}[c+d\,x]}{24\,d}+\frac{\left(20\,a\,b\,B+6\,a^2\,C+9\,b^2\,C\right)(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{(4\,b\,B+3\,a\,C)\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{C\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Tan}[c+d\,x]}{4\,d}$$

$$\frac{1}{48\,d}\left(-6\left(8\,a^3\,B+12\,a\,b^2\,B+12\,a^2\,b\,C+3\,b^3\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$6\left(8\,a^3\,B+12\,a\,b^2\,B+12\,a^2\,b\,C+3\,b^3\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\frac{3\,b^3\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{b\left(36\,a^2\,C+12\,a\,b\,(3\,B+C)+b^2\,(4\,B+9\,C)\right)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{8\,b^2\,(b\,B+3\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{16\left(9\,a^2\,b\,B+2\,b^3\,B+3\,a^3\,C+6\,a\,b^2\,C\right)\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-$$
$$\frac{3\,b^3\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^4}+\frac{8\,b^2\,(b\,B+3\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-$$
$$\left.\frac{b\left(36\,a^2\,C+12\,a\,b\,(3\,B+C)+b^2\,(4\,B+9\,C)\right)}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{16\left(9\,a^2\,b\,B+2\,b^3\,B+3\,a^3\,C+6\,a\,b^2\,C\right)\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$a^3\,B\,x+\frac{\left(6\,a^2\,b\,B+b^3\,B+2\,a^3\,C+3\,a\,b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{b\left(15\,a\,b\,B+11\,a^2\,C+4\,b^2\,C\right)\text{Tan}[c+d\,x]}{6\,d}+$$
$$\frac{b\,(3\,b\,B+5\,a\,C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{6\,d}+\frac{b\,C\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d}\left(12\,a^3\,B\,(c+d\,x)-6\left(6\,a^2\,b\,B+b^3\,B+2\,a^3\,C+3\,a\,b^2\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$6\left(6\,a^2\,b\,B+b^3\,B+2\,a^3\,C+3\,a\,b^2\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\frac{b^2\,(9\,a\,C+b\,(3\,B+C))}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+$$
$$\frac{2\,b^3\,C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{4\,b\left(9\,a\,b\,B+9\,a^2\,C+2\,b^2\,C\right)\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}+$$
$$\left.\frac{2\,b^3\,C\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{b^2\,(9\,a\,C+b\,(3\,B+C))}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b\left(9\,a\,b\,B+9\,a^2\,C+2\,b^2\,C\right)\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$a^2\,(3\,b\,B+a\,C)\,x+\frac{b\left(6\,a\,b\,B+6\,a^2\,C+b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,d}+\frac{a\,B\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{d}-$$
$$\frac{b\left(2\,a^2\,B-2\,b^2\,B-5\,a\,b\,C\right)\text{Tan}[c+d\,x]}{2\,d}-\frac{b\,(2\,a\,B-b\,C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d}\left(4\,a^2\,(3\,b\,B+a\,C)\,(c+d\,x)-2\,b\left(6\,a\,b\,B+6\,a^2\,C+b^2\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$2\,b\left(6\,a\,b\,B+6\,a^2\,C+b^2\,C\right)\text{Log}\left[\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\frac{b^3\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b^2\,(b\,B+3\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}-$$
$$\left.\frac{b^3\,C}{\left(\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b^2\,(b\,B+3\,a\,C)\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}+4\,a^3\,B\,\text{Sin}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$\frac{\left(2\,a^2\,b\,B+b^3\,B-2\,a^3\,C-a\,b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,b^4\,d}+\frac{2\,a^3\,(b\,B-a\,C)\,\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\,\sqrt{a^2-b^2}\,d}-$$
$$\frac{\left(3\,a\,b\,B-3\,a^2\,C-2\,b^2\,C\right)\text{Tan}[c+d\,x]}{3\,b^3\,d}+\frac{(b\,B-a\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^2\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\frac{1}{12 b^4 d}\left(\frac{24 a^3 (b B - a C) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\sqrt{a^2-b^2}} + 6 \left(2 a^2+b^2\right) (-b B + a C) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] - \right.$$

$$6 \left(2 a^2+b^2\right) (-b B + a C) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] +$$

$$\frac{b^2 (-3 a C + b (3 B + C))}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2} + \frac{2 b^3 C \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^3} +$$

$$\frac{4 b \left(-3 a b B + 3 a^2 C + 2 b^2 C\right) \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]} + \frac{2 b^3 C \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^3} -$$

$$\left.\frac{b^2 (-3 a C + b (3 B + C))}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2} + \frac{4 b \left(-3 a b B + 3 a^2 C + 2 b^2 C\right) \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^2 \left(B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2\right)}{a + b \text{Sec}[c+d x]}, x, 6, 0\right\}$$

$$-\frac{\left(2 a b B - 2 a^2 C - b^2 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 b^3 d} -$$

$$\frac{2 a^2 (b B - a C) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3 \sqrt{a^2-b^2}\, d} + \frac{(b B - a C) \text{Tan}[c+d x]}{b^2 d} + \frac{C \text{Sec}[c+d x] \text{Tan}[c+d x]}{2 b d}$$

$$\frac{1}{4 b^3 d}\left(\frac{8 a^2 (-b B + a C) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\sqrt{a^2-b^2}} - 2 \left(-2 a b B + 2 a^2 C + b^2 C\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] + \right.$$

$$2 \left(-2 a b B + 2 a^2 C + b^2 C\right) \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right] + \frac{b^2 C}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2} +$$

$$\left.\frac{4 b (b B - a C) \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\text{Cos}\left[\frac{1}{2} (c+d x)\right] - \text{Sin}\left[\frac{1}{2} (c+d x)\right]} - \frac{b^2 C}{\left(\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2} + \frac{4 b (b B - a C) \text{Sin}\left[\frac{1}{2} (c+d x)\right]}{\text{Cos}\left[\frac{1}{2} (c+d x)\right] + \text{Sin}\left[\frac{1}{2} (c+d x)\right]}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x] \left(B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2\right)}{(a + b \text{Sec}[c+d x])^3}, x, 6, 0\right\}$$

$$\frac{B x}{a^3} + \frac{\left(6 a^4 b B - 5 a^2 b^3 B + 2 b^5 B - 2 a^5 C - a^3 b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3 \left(a^2-b^2\right)^{5/2} d} +$$

$$\frac{\left(5 a^2 b B - 2 b^3 B - 3 a^3 C\right) \text{Sin}[c+d x]}{2 a^2 \left(a^2-b^2\right)^2 d} - \frac{(b B - a C) \text{Sin}[c+d x]}{2 \left(a^2-b^2\right) d (a + b \text{Sec}[c+d x])^2} - \frac{\left(4 a^2 b B - b^3 B - 2 a^3 C - a b^2 C\right) \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right)^2 d (a + b \text{Sec}[c+d x])}$$

$$\left((b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]^2\,(B+C\,\text{Sec}[c+d\,x])\left(2\,B\,(c+d\,x)\,(b+a\,\text{Cos}[c+d\,x])^2-\frac{2\left(-6\,a^4\,b\,B+5\,a^2\,b^3\,B-2\,b^5\,B+2\,a^5\,C+a^3\,b^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right](b+a\,\text{Cos}[c+d\,x])^2}{\left(a^2-b^2\right)^{5/2}}+\frac{a\,b^2\,(-b\,B+a\,C)\,\text{Sin}[c+d\,x]}{a^2-b^2}-\frac{a\,b\left(-6\,a^2\,b\,B+3\,b^3\,B+4\,a^3\,C-a\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2}\right)\right)\Big/\left(2\,a^3\,d\,(C+B\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^3\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$-\frac{2\,(a+b)\,(3\,b\,B+a\,C)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,b\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,(3\,a\,B+3\,b\,B+a\,C+b\,C)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,(3\,b\,B+a\,C)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b\,d}+\frac{2\,C\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\left(\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(-(a+b)\left((3\,b\,B+a\,C)\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]-b\,(3\,B+C)\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)\left(\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\text{Sec}[c+d\,x]-(3\,b\,B+a\,C)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/\left(3\,b\,d\sqrt{\frac{\text{Cos}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}}\,(b+a\,\text{Cos}[c+d\,x])\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Sec}[c+d\,x]}\sqrt{\frac{\text{Sec}[c+d\,x]}{1+\text{Sec}[c+d\,x]}}\right)+\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(\frac{2\,(3\,b\,B+a\,C)\,\text{Sin}[c+d\,x]}{3\,b}+\frac{2}{3}\,C\,\text{Tan}[c+d\,x]\right)}{d}$$

Incorrect antiderivative:

$$\left\{(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{15\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\,\left(15\,a^2\,B+20\,a\,b\,B+5\,b^2\,B+3\,a^2\,C+12\,a\,b\,C+9\,b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,\left(20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b\,d}+\frac{2\,(5\,b\,B+3\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}+$$

$$\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\left(\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right.$$

$$\left(-(a+b)\,\left(\left(20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.\right.$$

$$\left.b\,(3\,a\,(5\,B+C)+b\,(5\,B+9\,C))\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\right)$$

$$\left(\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\text{Sec}[c+d\,x]-$$

$$\left.\left.\left(20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Big/$$

$$\left(15\,b\,d\,\sqrt{\frac{\text{Cos}[c+d\,x]}{(1+\text{Cos}[c+d\,x])^2}}\,(b+a\,\text{Cos}[c+d\,x])^2\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{\frac{\text{Sec}[c+d\,x]}{1+\text{Sec}[c+d\,x]}}\right)+$$

$$\frac{1}{d\,(b+a\,\text{Cos}[c+d\,x])}$$

$$\text{Cos}[c+d\,x]$$

$$(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(\frac{2\,\left(20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\,\text{Sin}[c+d\,x]}{15\,b}+\right.$$

$$\left.\frac{2}{15}\,\text{Sec}[c+d\,x]\,(5\,b\,B\,\text{Sin}[c+d\,x]+6\,a\,C\,\text{Sin}[c+d\,x])+\frac{2}{5}\,b\,C\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(a+b)\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(B+C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b\,d}$$

$$\frac{2\,C\,(b+a\,\text{Cos}[c+d\,x])\,\text{Tan}[c+d\,x]}{b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\left(-\frac{C}{\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{B\,\sqrt{\text{Sec}[c+d\,x]}}{\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,C\,\sqrt{\text{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}-\frac{a\,C\,\text{Cos}[2\,(c+d\,x)]\,\sqrt{\text{Sec}[c+d\,x]}}{b\,\sqrt{b+a\,\text{Cos}[c+d\,x]}}\right)\right.$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}$$

$$\left(2\,(a+b)\,C\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(B+C)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.\left.C\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(b\,d\,\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(-\left(a\,\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]\right.\right.\right.$$

$$\left(2\,(a+b)\,C\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(B+C)\,\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$C\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\left(b\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)+\left(\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right.$$

$$\left(2\,(a+b)\,C\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(B+C)\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$C\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\Bigg)\Bigg)\Bigg/$$

$$\left(b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-\frac{1}{b\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$2\,\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\,\Bigg(\frac{1}{2}\,C\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4+$$

$$\frac{(a+b)\,C\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}-$$

$$\frac{b\,(B+C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(\frac{\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}-\frac{\mathrm{Sin}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}\right)}{\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}}+$$

$$\frac{(a+b)\,C\,\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}+\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}}-$$

$$\frac{b\,(B+C)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\left(-\frac{a\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}+\frac{(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])^2}\right)}{\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}}-$$

$$a\,C\,\text{Cos}[c+d\,x]\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$C\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sin}[c+d\,x]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+C\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2-\frac{b\,(B+C)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\left.\frac{(a+b)\,C\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)-$$

$$\frac{1}{b\sqrt{b+a\,\text{Cos}[c+d\,x]}\sqrt{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]}}$$

$$\left(2\,(a+b)\,C\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]-\right.$$

$$2\,b\,(B+C)\sqrt{\frac{\text{Cos}[c+d\,x]}{1+\text{Cos}[c+d\,x]}}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+$$

$$\left.C\,\text{Cos}[c+d\,x]\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\left.\left.\left(-\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]\text{Sec}[c+d\,x]\,\text{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]+\text{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\,x,\,5,\,0\right\}$$

$$-\frac{2\,(b\,B-a\,C)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{(a-b)\,b\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(B-C)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\;\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{(a-b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,(b\,B-a\,C)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b\,(a+b)\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^2\left(-\frac{2\,(b\,B-a\,C)\,\mathrm{Sin}[c+d\,x]}{b\,(-a^2+b^2)}+\frac{2\,(b\,B\,\mathrm{Sin}[c+d\,x]-a\,C\,\mathrm{Sin}[c+d\,x])}{(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\left(\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\left(-(a+b)\left((-b\,B+a\,C)\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+b\,(B-C)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)\right.$$

$$\left(\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\mathrm{Sec}[c+d\,x]+$$

$$\left.\left.(b\,B-a\,C)\,\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^4\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left((-a^2\,b+b^3)\,d\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}}\sqrt{\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\sqrt{\frac{\mathrm{Sec}[c+d\,x]}{1+\mathrm{Sec}[c+d\,x]}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,(4\,a\,b\,B-a^2\,C-3\,b^2\,C)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,b\,(a+b)\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,a\,B+b\,B-a\,C-3\,b\,C)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2\,(a+b)\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(4\,a\,b\,B-a^2\,C-3\,b^2\,C)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,(a-b)\,b\,(a+b)^2\,d\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,(b\,B-a\,C)\,\mathrm{Tan}[c+d\,x]}{3\,(a^2-b^2)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^3\left(-\frac{2\left(-4\,a\,b\,B+a^2\,C+3\,b^2\,C\right)\mathrm{Sin}[c+d\,x]}{3\,b\left(-a^2+b^2\right)^2}-\frac{2\left(b^2\,B\,\mathrm{Sin}[c+d\,x]-a\,b\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a\left(-a^2+b^2\right)(b+a\,\mathrm{Cos}[c+d\,x])^2}+\right.$$

$$\left.\frac{2\left(-5\,a^2\,b\,B\,\mathrm{Sin}[c+d\,x]+b^3\,B\,\mathrm{Sin}[c+d\,x]+2\,a^3\,C\,\mathrm{Sin}[c+d\,x]+2\,a\,b^2\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a\left(-a^2+b^2\right)^2(b+a\,\mathrm{Cos}[c+d\,x])}\right)+$$

$$\left(\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{1+\mathrm{Cos}[c+d\,x]}}\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{\mathrm{Cos}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Sec}[c+d\,x]}\right.$$

$$\left((a+b)\left(\left(-4\,a\,b\,B+a^2\,C+3\,b^2\,C\right)\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]+b\,(3\,a\,B+b\,B-a\,C-3\,b\,C)\,\mathrm{EllipticF}\right.\right.$$

$$\left.\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a-b}{a+b}\right]\right)\left(\mathrm{Cos}[c+d\,x]\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\sqrt{\frac{(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left.\left.\mathrm{Sec}[c+d\,x]+\left(-4\,a\,b\,B+a^2\,C+3\,b^2\,C\right)\mathrm{Cos}[c+d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^4\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\right)\Bigg/$$

$$\left(3\,b\left(a^2-b^2\right)^2 d\sqrt{\frac{\mathrm{Cos}[c+d\,x]}{(1+\mathrm{Cos}[c+d\,x])^2}}\sqrt{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{\mathrm{Sec}[c+d\,x]}{1+\mathrm{Sec}[c+d\,x]}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}},\,x,\,7,\,0\right\}$$

$$-\frac{2\left(23\,a^2\,b\,B+9\,b^3\,B-3\,a^3\,C-29\,a\,b^2\,C\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,(a-b)^3\,b\,(a+b)^2\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\left(2\left(15\,a^2\,B+8\,a\,b\,B+9\,b^2\,B-3\,a^2\,C-24\,a\,b\,C-5\,b^2\,C\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\right.$$

$$\left.\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Bigg/\left(15\,(a-b)^3\,(a+b)^2\,d\sqrt{\mathrm{Cos}[c+d\,x]}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)+$$

$$\frac{2\left(23\,a^2\,b\,B+9\,b^3\,B-3\,a^3\,C-29\,a\,b^2\,C\right)\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{15\,(a-b)^2\,b\,(a+b)^3\,d\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-\frac{2\,(b\,B-a\,C)\,\mathrm{Tan}[c+d\,x]}{5\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}-$$

$$\frac{2\left(8\,a\,b\,B-3\,a^2\,C-5\,b^2\,C\right)\mathrm{Tan}[c+d\,x]}{15\left(a^2-b^2\right)^2 d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}$$

$$\frac{1}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}}\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Sec}[c+d\,x]^4$$

$$\left(-\frac{2\,\left(23\,a^2\,b\,B+9\,b^3\,B-3\,a^3\,C-29\,a\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{15\,b\,\left(-a^2+b^2\right)^3}+\frac{2\,\left(b^3\,B\,\mathrm{Sin}[c+d\,x]-a\,b^2\,C\,\mathrm{Sin}[c+d\,x]\right)}{5\,a^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^3}-\right.$$

$$\frac{2\,\left(-14\,a^2\,b^2\,B\,\mathrm{Sin}[c+d\,x]+6\,b^4\,B\,\mathrm{Sin}[c+d\,x]+9\,a^3\,b\,C\,\mathrm{Sin}[c+d\,x]-a\,b^3\,C\,\mathrm{Sin}[c+d\,x]\right)}{15\,a^2\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])^2}+$$

$$\left.\left(2\,\left(-34\,a^4\,b\,B\,\mathrm{Sin}[c+d\,x]+5\,a^2\,b^3\,B\,\mathrm{Sin}[c+d\,x]-3\,b^5\,B\,\mathrm{Sin}[c+d\,x]+9\,a^5\,C\,\mathrm{Sin}[c+d\,x]+\right.\right.\right.$$

$$\left.\left.\left.25\,a^3\,b^2\,C\,\mathrm{Sin}[c+d\,x]-2\,a\,b^4\,C\,\mathrm{Sin}[c+d\,x]\right)\right)\Big/\left(15\,a^2\,\left(a^2-b^2\right)^3\,(b+a\,\mathrm{Cos}[c+d\,x])\right)\right)+$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{7/2}\,\mathrm{Sec}[c+d\,x]^{7/2}\,\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\left(\left(-23\,a^2\,b\,B-9\,b^3\,B+3\,a^3\,C+29\,a\,b^2\,C\right)\right.\right.$$

$$\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-$$

$$(a+b)\,\left(\left(-23\,a^2\,b\,B-9\,b^3\,B+3\,a^3\,C+29\,a\,b^2\,C\right)\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]+\right.$$

$$\left.b\,\left(b^2\,(9\,B-5\,C)+8\,a\,b\,(B-3\,C)+3\,a^2\,(5\,B-C)\right)\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a-b}{a+b}\right]\right)$$

$$\left.\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)\right)\Big/$$

$$\left(15\,b\,\left(-a^2+b^2\right)^3\,d\,(a+b\,\mathrm{Sec}[c+d\,x])^{7/2}\,\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^{3/2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{(4\,a\,A+3\,b\,B+3\,a\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+\frac{2\,(5\,A\,b+5\,a\,B+4\,b\,C)\,\mathrm{Tan}[c+d\,x]}{15\,d}+$$

$$\frac{(4\,a\,A+3\,b\,B+3\,a\,C)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{8\,d}+\frac{(5\,A\,b+5\,a\,B+4\,b\,C)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{15\,d}+$$

$$\frac{(5\,b\,B+a\,C)\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Tan}[c+d\,x]}{20\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

$$-\frac{a\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}-\frac{3\,b\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}-$$
$$\frac{3\,a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+\frac{a\,A\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{3\,b\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+\frac{3\,a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+$$
$$\frac{b\,B}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{a\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+$$
$$\frac{a\,A}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{3\,b\,B}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$
$$\frac{3\,a\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{b\,B}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}-$$
$$\frac{a\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}-\frac{a\,A}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-$$
$$\frac{3\,b\,B}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{3\,a\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$
$$\frac{2\,A\,b\,\text{Tan}[c+d\,x]}{3\,d}+\frac{2\,a\,B\,\text{Tan}[c+d\,x]}{3\,d}+\frac{8\,b\,C\,\text{Tan}[c+d\,x]}{15\,d}+\frac{A\,b\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+$$
$$\frac{a\,B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{4\,b\,C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{15\,d}+\frac{b\,C\,\text{Sec}[c+d\,x]^4\,\text{Tan}[c+d\,x]}{5\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$\frac{(4\,A\,b+4\,a\,B+3\,b\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{(3\,a\,A+2\,b\,B+2\,a\,C)\,\text{Tan}[c+d\,x]}{3\,d}+\frac{(4\,A\,b+4\,a\,B+3\,b\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+$$
$$\frac{(4\,b\,B+a\,C)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{12\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{A\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}-\frac{a\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}-$$
$$\frac{3\,b\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+\frac{A\,b\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}+$$
$$\frac{a\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{2\,d}+\frac{3\,b\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]}{8\,d}+$$
$$\frac{b\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}+\frac{A\,b}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+$$
$$\frac{a\,B}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{3\,b\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-$$
$$\frac{b\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^4}-\frac{A\,b}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-$$
$$\frac{a\,B}{4\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}-\frac{3\,b\,C}{16\,d\left(\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right)^2}+\frac{a\,A\,\text{Tan}[c+d\,x]}{d}+$$
$$\frac{2\,b\,B\,\text{Tan}[c+d\,x]}{3\,d}+\frac{2\,a\,C\,\text{Tan}[c+d\,x]}{3\,d}+\frac{b\,B\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}+\frac{a\,C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,d}$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$A\,b\,x+a\,B\,x+\frac{(b\,B+a\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{d}+\frac{A\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d}-\frac{b\,(A-C)\,\text{Tan}[c+d\,x]}{d}$$
$$\frac{1}{d}\Big(A\,b\,d\,x+a\,B\,d\,x-b\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$
$$a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+b\,B\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+$$
$$a\,C\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]+a\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]+a\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]+b\,C\,\text{Tan}[c+d\,x]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{8\,d}+\frac{\left(15\,a^2\,A+10\,A\,b^2+20\,a\,b\,B+10\,a^2\,C+8\,b^2\,C\right)\,\text{Tan}[c+d\,x]}{15\,d}+$$
$$\frac{\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{8\,d}+\frac{\left(20\,A\,b^2+25\,a\,b\,B+2\,a^2\,C+16\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{60\,d}+$$
$$\frac{(5\,b\,B+2\,a\,C)\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])\,\text{Tan}[c+d\,x]}{20\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\frac{1}{960\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$
$$(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big(-240\,\left(8\,a\,A\,b+4\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)$$
$$\mathrm{Cos}[c+d\,x]^4\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\left(80\,\left(14\,a\,b\,B+a^2\,(9\,A+7\,C)+b^2\,(7\,A+8\,C)\right)\,\mathrm{Sin}[d\,x]-240\,\left(A\,b^2+2\,a\,b\,B+a^2\,(2\,A+C)\right)\,\mathrm{Sin}[2\,c+d\,x]+\right.$$
$$240\,a\,A\,b\,\mathrm{Sin}[c+2\,d\,x]+120\,a^2\,B\,\mathrm{Sin}[c+2\,d\,x]+210\,b^2\,B\,\mathrm{Sin}[c+2\,d\,x]+420\,a\,b\,C\,\mathrm{Sin}[c+2\,d\,x]+$$
$$240\,a\,A\,b\,\mathrm{Sin}[3\,c+2\,d\,x]+120\,a^2\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+210\,b^2\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$420\,a\,b\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+480\,a^2\,A\,\mathrm{Sin}[2\,c+3\,d\,x]+400\,A\,b^2\,\mathrm{Sin}[2\,c+3\,d\,x]+800\,a\,b\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$400\,a^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+320\,b^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-120\,a^2\,A\,\mathrm{Sin}[4\,c+3\,d\,x]+120\,a\,A\,b\,\mathrm{Sin}[3\,c+4\,d\,x]+$$
$$60\,a^2\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+45\,b^2\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+90\,a\,b\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+120\,a\,A\,b\,\mathrm{Sin}[5\,c+4\,d\,x]+$$
$$60\,a^2\,B\,\mathrm{Sin}[5\,c+4\,d\,x]+45\,b^2\,B\,\mathrm{Sin}[5\,c+4\,d\,x]+90\,a\,b\,C\,\mathrm{Sin}[5\,c+4\,d\,x]+120\,a^2\,A\,\mathrm{Sin}[4\,c+5\,d\,x]+$$
$$\left.\left.80\,A\,b^2\,\mathrm{Sin}[4\,c+5\,d\,x]+160\,a\,b\,B\,\mathrm{Sin}[4\,c+5\,d\,x]+80\,a^2\,C\,\mathrm{Sin}[4\,c+5\,d\,x]+64\,b^2\,C\,\mathrm{Sin}[4\,c+5\,d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$
$$\frac{\left(8\,a^2\,A+4\,A\,b^2+8\,a\,b\,B+4\,a^2\,C+3\,b^2\,C\right)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{8\,d}+$$
$$\frac{\left(6\,a\,A\,b+3\,a^2\,B+2\,b^2\,B+4\,a\,b\,C\right)\,\mathrm{Tan}[c+d\,x]}{3\,d}+\frac{\left(12\,A\,b^2+16\,a\,b\,B+2\,a^2\,C+9\,b^2\,C\right)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{24\,d}+$$
$$\frac{(2\,b\,B+a\,C)\,\mathrm{Sec}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{4\,d}$$

$$-\frac{1}{96\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}$$
$$(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big(24\,\left(8\,a\,b\,B+4\,a^2\,(2\,A+C)+b^2\,(4\,A+3\,C)\right)$$
$$\mathrm{Cos}[c+d\,x]^4\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)-$$
$$\mathrm{Sec}[c]\,\left(-24\,\left(6\,a\,A\,b+3\,a^2\,B+2\,b^2\,B+4\,a\,b\,C\right)\,\mathrm{Sin}[c]+3\,\left(4\,A\,b^2+8\,a\,b\,B+4\,a^2\,C+11\,b^2\,C\right)\,\mathrm{Sin}[d\,x]+\right.$$
$$12\,A\,b^2\,\mathrm{Sin}[2\,c+d\,x]+24\,a\,b\,B\,\mathrm{Sin}[2\,c+d\,x]+12\,a^2\,C\,\mathrm{Sin}[2\,c+d\,x]+33\,b^2\,C\,\mathrm{Sin}[2\,c+d\,x]+144\,a\,A\,b\,\mathrm{Sin}[c+2\,d\,x]+$$
$$72\,a^2\,B\,\mathrm{Sin}[c+2\,d\,x]+64\,b^2\,B\,\mathrm{Sin}[c+2\,d\,x]+128\,a\,b\,C\,\mathrm{Sin}[c+2\,d\,x]-48\,a\,A\,b\,\mathrm{Sin}[3\,c+2\,d\,x]-24\,a^2\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$12\,A\,b^2\,\mathrm{Sin}[2\,c+3\,d\,x]+24\,a\,b\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+12\,a^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+9\,b^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+$$
$$12\,A\,b^2\,\mathrm{Sin}[4\,c+3\,d\,x]+24\,a\,b\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+12\,a^2\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+9\,b^2\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+$$
$$\left.\left.48\,a\,A\,b\,\mathrm{Sin}[3\,c+4\,d\,x]+24\,a^2\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+16\,b^2\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+32\,a\,b\,C\,\mathrm{Sin}[3\,c+4\,d\,x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$
$$a^2\,A\,x+\frac{\left(4\,a\,A\,b+2\,a^2\,B+b^2\,B+2\,a\,b\,C\right)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{\left(6\,A\,b^2+9\,a\,b\,B+2\,a^2\,C+4\,b^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{6\,d}+$$
$$\frac{(3\,b\,B+2\,a\,C)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{C\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big(-12\,\left(2\,a^2\,B+b^2\,B+2\,a\,b\,(2\,A+C)\right)$$
$$\mathrm{Cos}[c+d\,x]^3\,\left(\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]\right)+$$
$$\mathrm{Sec}[c]\,\big(9\,a^2\,A\,d\,x\,\mathrm{Cos}[d\,x]+9\,a^2\,A\,d\,x\,\mathrm{Cos}[2\,c+d\,x]+3\,a^2\,A\,d\,x\,\mathrm{Cos}[2\,c+3\,d\,x]+3\,a^2\,A\,d\,x\,\mathrm{Cos}[4\,c+3\,d\,x]+$$
$$12\,A\,b^2\,\mathrm{Sin}[d\,x]+24\,a\,b\,B\,\mathrm{Sin}[d\,x]+12\,a^2\,C\,\mathrm{Sin}[d\,x]+12\,b^2\,C\,\mathrm{Sin}[d\,x]-6\,A\,b^2\,\mathrm{Sin}[2\,c+d\,x]-12\,a\,b\,B\,\mathrm{Sin}[2\,c+d\,x]-$$
$$6\,a^2\,C\,\mathrm{Sin}[2\,c+d\,x]+3\,b^2\,B\,\mathrm{Sin}[c+2\,d\,x]+6\,a\,b\,C\,\mathrm{Sin}[c+2\,d\,x]+3\,b^2\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+6\,a\,b\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+$$
$$6\,A\,b^2\,\mathrm{Sin}[2\,c+3\,d\,x]+12\,a\,b\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+6\,a^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+4\,b^2\,C\,\mathrm{Sin}[2\,c+3\,d\,x]\big)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$a\,(2\,A\,b+a\,B)\,x+\frac{\left(2\,A\,b^2+4\,a\,b\,B+2\,a^2\,C+b^2\,C\right)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+$$
$$\frac{A\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{d}-\frac{b\,(2\,a\,A-2\,b\,B-3\,a\,C)\,\mathrm{Tan}[c+d\,x]}{2\,d}-\frac{b\,(2\,A-C)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,\mathrm{Cos}[c+d\,x]^4\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Bigg(4\,a\,(2\,A\,b+a\,B)\,x-\frac{2\,\left(2\,A\,b^2+4\,a\,b\,B+2\,a^2\,C+b^2\,C\right)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+$$
$$\frac{2\,\left(2\,A\,b^2+4\,a\,b\,B+2\,a^2\,C+b^2\,C\right)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,a^2\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{4\,a^2\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+$$
$$\frac{b^2\,C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b\,(b\,B+2\,a\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}-$$
$$\frac{b^2\,C}{d\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b\,(b\,B+2\,a\,C)\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\,\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{1}{2}\,a^2\,A\,x+A\,b^2\,x+2\,a\,b\,B\,x+a^2\,C\,x+\frac{b\,(b\,B+2\,a\,C)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}+\frac{(A\,b+a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{d}+$$
$$\frac{A\,\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{2\,d}-\frac{b\,(3\,A\,b+2\,a\,B-2\,b\,C)\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])}\,\mathrm{Cos}[c+d\,x]^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(2\,\left(2\,A\,b^2+4\,a\,b\,B+a^2\,(A+2\,C)\right)x-\frac{4\,b\,(b\,B+2\,a\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,b\,(b\,B+2\,a\,C)\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}+\frac{4\,a\,(2\,A\,b+a\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{d}+\frac{a^2\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{d}+\frac{4\,a\,(2\,A\,b+a\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{a^2\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{d}+\frac{4\,b^2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}+\frac{4\,b^2\,C\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]}{d\,\left(\mathrm{Cos}\left[\frac{c}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}\right]\right)\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{\left(24\,a^2\,A\,b+6\,A\,b^3+8\,a^3\,B+18\,a\,b^2\,B+18\,a^2\,b\,C+5\,b^3\,C\right)\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{16\,d}+\frac{\left(15\,a^3\,A+30\,a\,A\,b^2+30\,a^2\,b\,B+8\,b^3\,B+10\,a^3\,C+24\,a\,b^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{15\,d}+\frac{\left(24\,a^2\,A\,b+6\,A\,b^3+8\,a^3\,B+18\,a\,b^2\,B+18\,a^2\,b\,C+5\,b^3\,C\right)\,\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{16\,d}+\frac{\left(90\,a\,A\,b^2+54\,a^2\,b\,B+32\,b^3\,B+2\,a^3\,C+71\,a\,b^2\,C\right)\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{120\,d}+\frac{\left(30\,A\,b^2+42\,a\,b\,B+6\,a^2\,C+25\,b^2\,C\right)\,\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{120\,d}+\frac{(2\,b\,B+a\,C)\,\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{10\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Tan}[c+d\,x]}{6\,d}$$

$$\left(\left(-24 a^2 A b-6 A b^3-8 a^3 B-18 a b^2 B-18 a^2 b C-5 b^3 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(24 a^2 A b+6 A b^3+8 a^3 B+18 a b^2 B+18 a^2 b C+5 b^3 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{3840 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c] \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(-2400 a^3 A \operatorname{Sin}[c]-4800 a A b^2 \operatorname{Sin}[c]-4800 a^2 b B \operatorname{Sin}[c]-1280 b^3 B \operatorname{Sin}[c]-1600 a^3 C \operatorname{Sin}[c]-3840 a b^2 C \operatorname{Sin}[c]+720 a^2 A b \operatorname{Sin}[d x]+420 A b^3 \operatorname{Sin}[d x]+240 a^3 B \operatorname{Sin}[d x]+1260 a b^2 B \operatorname{Sin}[d x]+1260 a^2 b C \operatorname{Sin}[d x]+990 b^3 C \operatorname{Sin}[d x]+720 a^2 A b \operatorname{Sin}[2 c+d x]+420 A b^3 \operatorname{Sin}[2 c+d x]+240 a^3 B \operatorname{Sin}[2 c+d x]+1260 a b^2 B \operatorname{Sin}[2 c+d x]+1260 a^2 b C \operatorname{Sin}[2 c+d x]+990 b^3 C \operatorname{Sin}[2 c+d x]+2400 a^3 A \operatorname{Sin}[c+2 d x]+5760 a A b^2 \operatorname{Sin}[c+2 d x]+5760 a^2 b B \operatorname{Sin}[c+2 d x]+1920 b^3 B \operatorname{Sin}[c+2 d x]+1920 a^3 C \operatorname{Sin}[c+2 d x]+5760 a b^2 C \operatorname{Sin}[c+2 d x]-1200 a^3 A \operatorname{Sin}[3 c+2 d x]-1440 a A b^2 \operatorname{Sin}[3 c+2 d x]-1440 a^2 b B \operatorname{Sin}[3 c+2 d x]-480 a^3 C \operatorname{Sin}[3 c+2 d x]+1080 a^2 A b \operatorname{Sin}[2 c+3 d x]+510 A b^3 \operatorname{Sin}[2 c+3 d x]+360 a^3 B \operatorname{Sin}[2 c+3 d x]+1530 a b^2 B \operatorname{Sin}[2 c+3 d x]+1530 a^2 b C \operatorname{Sin}[2 c+3 d x]+425 b^3 C \operatorname{Sin}[2 c+3 d x]+1080 a^2 A b \operatorname{Sin}[4 c+3 d x]+510 A b^3 \operatorname{Sin}[4 c+3 d x]+360 a^3 B \operatorname{Sin}[4 c+3 d x]+1530 a b^2 B \operatorname{Sin}[4 c+3 d x]+1530 a^2 b C \operatorname{Sin}[4 c+3 d x]+425 b^3 C \operatorname{Sin}[4 c+3 d x]+1200 a^3 A \operatorname{Sin}[3 c+4 d x]+2880 a A b^2 \operatorname{Sin}[3 c+4 d x]+2880 a^2 b B \operatorname{Sin}[3 c+4 d x]+768 b^3 B \operatorname{Sin}[3 c+4 d x]+960 a^3 C \operatorname{Sin}[3 c+4 d x]+2304 a b^2 C \operatorname{Sin}[3 c+4 d x]-240 a^3 A \operatorname{Sin}[5 c+4 d x]+360 a^2 A b \operatorname{Sin}[4 c+5 d x]+90 A b^3 \operatorname{Sin}[4 c+5 d x]+120 a^3 B \operatorname{Sin}[4 c+5 d x]+270 a b^2 B \operatorname{Sin}[4 c+5 d x]+270 a^2 b C \operatorname{Sin}[4 c+5 d x]+75 b^3 C \operatorname{Sin}[4 c+5 d x]+360 a^2 A b \operatorname{Sin}[6 c+5 d x]+90 A b^3 \operatorname{Sin}[6 c+5 d x]+120 a^3 B \operatorname{Sin}[6 c+5 d x]+270 a b^2 B \operatorname{Sin}[6 c+5 d x]+270 a^2 b C \operatorname{Sin}[6 c+5 d x]+75 b^3 C \operatorname{Sin}[6 c+5 d x]+240 a^3 A \operatorname{Sin}[5 c+6 d x]+480 a A b^2 \operatorname{Sin}[5 c+6 d x]+480 a^2 b B \operatorname{Sin}[5 c+6 d x]+128 b^3 B \operatorname{Sin}[5 c+6 d x]+160 a^3 C \operatorname{Sin}[5 c+6 d x]+384 a b^2 C \operatorname{Sin}[5 c+6 d x]\right)$$

Incorrect antiderivative:

$$\left\{\operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$\frac{\left(8 a^3 A+12 a A b^2+12 a^2 b B+3 b^3 B+4 a^3 C+9 a b^2 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{8 d}+\frac{\left(45 a^2 A b+10 A b^3+15 a^3 B+30 a b^2 B+30 a^2 b C+8 b^3 C\right) \operatorname{Tan}[c+d x]}{15 d}+\frac{\left(140 a A b^2+90 a^2 b B+45 b^3 B+6 a^3 C+103 a b^2 C\right) \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{120 d}+\frac{\left(10 A b^2+15 a b B+3 a^2 C+8 b^2 C\right) \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{30 d}+\frac{(5 b B+3 a C) \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{20 d}+\frac{C \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Tan}[c+d x]}{5 d}$$

$$\left(\left(-8 a^3 A-12 a A b^2-12 a^2 b B-3 b^3 B-4 a^3 C-9 a b^2 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(8 a^3 A+12 a A b^2+12 a^2 b B+3 b^3 B+4 a^3 C+9 a b^2 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{960 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(2160 a^2 A b \operatorname{Sin}[d x]+560 A b^3 \operatorname{Sin}[d x]+720 a^3 B \operatorname{Sin}[d x]+1680 a b^2 B \operatorname{Sin}[d x]+1680 a^2 b C \operatorname{Sin}[d x]+640 b^3 C \operatorname{Sin}[d x]-1440 a^2 A b \operatorname{Sin}[2 c+d x]-240 A b^3 \operatorname{Sin}[2 c+d x]-480 a^3 B \operatorname{Sin}[2 c+d x]-720 a b^2 B \operatorname{Sin}[2 c+d x]-720 a^2 b C \operatorname{Sin}[2 c+d x]+360 a A b^2 \operatorname{Sin}[c+2 d x]+360 a^2 b B \operatorname{Sin}[c+2 d x]+210 b^3 B \operatorname{Sin}[c+2 d x]+120 a^3 C \operatorname{Sin}[c+2 d x]+630 a b^2 C \operatorname{Sin}[c+2 d x]+360 a A b^2 \operatorname{Sin}[3 c+2 d x]+360 a^2 b B \operatorname{Sin}[3 c+2 d x]+210 b^3 B \operatorname{Sin}[3 c+2 d x]+120 a^3 C \operatorname{Sin}[3 c+2 d x]+630 a b^2 C \operatorname{Sin}[3 c+2 d x]+1440 a^2 A b \operatorname{Sin}[2 c+3 d x]+400 A b^3 \operatorname{Sin}[2 c+3 d x]+480 a^3 B \operatorname{Sin}[2 c+3 d x]+1200 a b^2 B \operatorname{Sin}[2 c+3 d x]+1200 a^2 b C \operatorname{Sin}[2 c+3 d x]+320 b^3 C \operatorname{Sin}[2 c+3 d x]-360 a^2 A b \operatorname{Sin}[4 c+3 d x]-120 a^3 B \operatorname{Sin}[4 c+3 d x]+180 a A b^2 \operatorname{Sin}[3 c+4 d x]+180 a^2 b B \operatorname{Sin}[3 c+4 d x]+45 b^3 B \operatorname{Sin}[3 c+4 d x]+60 a^3 C \operatorname{Sin}[3 c+4 d x]+135 a b^2 C \operatorname{Sin}[3 c+4 d x]+180 a A b^2 \operatorname{Sin}[5 c+4 d x]+180 a^2 b B \operatorname{Sin}[5 c+4 d x]+45 b^3 B \operatorname{Sin}[5 c+4 d x]+60 a^3 C \operatorname{Sin}[5 c+4 d x]+135 a b^2 C \operatorname{Sin}[5 c+4 d x]+360 a^2 A b \operatorname{Sin}[4 c+5 d x]+80 A b^3 \operatorname{Sin}[4 c+5 d x]+120 a^3 B \operatorname{Sin}[4 c+5 d x]+240 a b^2 B \operatorname{Sin}[4 c+5 d x]+240 a^2 b C \operatorname{Sin}[4 c+5 d x]+64 b^3 C \operatorname{Sin}[4 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$a^3 A x+\frac{\left(24 a^2 A b+4 A b^3+8 a^3 B+12 a b^2 B+12 a^2 b C+3 b^3 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{8 d}+\frac{\left(60 a A b^2+44 a^2 b B+16 b^3 B+6 a^3 C+39 a b^2 C\right) \operatorname{Tan}[c+d x]}{24 d}+\frac{\left(12 A b^2+20 a b B+6 a^2 C+9 b^2 C\right) (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{24 d}+\frac{(4 b B+3 a C) (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{12 d}+\frac{C (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Tan}[c+d x]}{4 d}$$

$$\frac{1}{96 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)])} \operatorname{Cos}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-24 \left(8 a^3 B+12 a b^2 B+12 a^2 b (2 A+C)+b^3 (4 A+3 C)\right) \operatorname{Cos}[c+d x]^4 \left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]\right)+\operatorname{Sec}[c] \left(72 a^3 A d x \operatorname{Cos}[c]+48 a^3 A d x \operatorname{Cos}[c+2 d x]+48 a^3 A d x \operatorname{Cos}[3 c+2 d x]+12 a^3 A d x \operatorname{Cos}[3 c+4 d x]+12 a^3 A d x \operatorname{Cos}[5 c+4 d x]-216 a A b^2 \operatorname{Sin}[c]-216 a^2 b B \operatorname{Sin}[c]-48 b^3 B \operatorname{Sin}[c]-72 a^3 C \operatorname{Sin}[c]-144 a b^2 C \operatorname{Sin}[c]+12 A b^3 \operatorname{Sin}[d x]+36 a b^2 B \operatorname{Sin}[d x]+36 a^2 b C \operatorname{Sin}[d x]+33 b^3 C \operatorname{Sin}[d x]+12 A b^3 \operatorname{Sin}[2 c+d x]+36 a b^2 B \operatorname{Sin}[2 c+d x]+36 a^2 b C \operatorname{Sin}[2 c+d x]+33 b^3 C \operatorname{Sin}[2 c+d x]+216 a A b^2 \operatorname{Sin}[c+2 d x]+216 a^2 b B \operatorname{Sin}[c+2 d x]+64 b^3 B \operatorname{Sin}[c+2 d x]+72 a^3 C \operatorname{Sin}[c+2 d x]+192 a b^2 C \operatorname{Sin}[c+2 d x]-72 a A b^2 \operatorname{Sin}[3 c+2 d x]-72 a^2 b B \operatorname{Sin}[3 c+2 d x]-24 a^3 C \operatorname{Sin}[3 c+2 d x]+12 A b^3 \operatorname{Sin}[2 c+3 d x]+36 a b^2 B \operatorname{Sin}[2 c+3 d x]+36 a^2 b C \operatorname{Sin}[2 c+3 d x]+9 b^3 C \operatorname{Sin}[2 c+3 d x]+12 A b^3 \operatorname{Sin}[4 c+3 d x]+36 a b^2 B \operatorname{Sin}[4 c+3 d x]+36 a^2 b C \operatorname{Sin}[4 c+3 d x]+9 b^3 C \operatorname{Sin}[4 c+3 d x]+72 a A b^2 \operatorname{Sin}[3 c+4 d x]+72 a^2 b B \operatorname{Sin}[3 c+4 d x]+16 b^3 B \operatorname{Sin}[3 c+4 d x]+24 a^3 C \operatorname{Sin}[3 c+4 d x]+48 a b^2 C \operatorname{Sin}[3 c+4 d x]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$a^2 (3 A b + a B) x + \frac{\left(6 a A b^2 + 6 a^2 b B + b^3 B + 2 a^3 C + 3 a b^2 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{A (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{d} - \frac{b \left(6 a^2 A - 6 A b^2 - 15 a b B - 11 a^2 C - 4 b^2 C\right) \text{Tan}[c + d x]}{6 d} - \frac{b (6 a A - 3 b B - 5 a C) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{6 d} - \frac{b (3 A - C) (a + b \text{Sec}[c + d x])^2 \text{Tan}[c + d x]}{3 d}$$

$$\frac{1}{24 d (b + a \text{Cos}[c + d x])^3 (A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 (c + d x)])} \text{Cos}[c + d x]^2 (a + b \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \Big(-24 \left(6 a^2 b B + b^3 B + 2 a^3 C + 3 a b^2 (2 A + C)\right) \text{Cos}[c + d x]^3 \left(\text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] - \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right] - \text{Log}\left[\text{Cos}\left[\frac{1}{2} (c + d x)\right] + \text{Sin}\left[\frac{1}{2} (c + d x)\right]\right]\right) + \text{Sec}[c] \big(18 a^2 (3 A b + a B) d x \text{Cos}[d x] + 18 a^2 (3 A b + a B) d x \text{Cos}[2 c + d x] + 18 a^2 A b d x \text{Cos}[2 c + 3 d x] + 6 a^3 B d x \text{Cos}[2 c + 3 d x] + 18 a^2 A b d x \text{Cos}[4 c + 3 d x] + 6 a^3 B d x \text{Cos}[4 c + 3 d x] + 24 A b^3 \text{Sin}[d x] + 72 a b^2 B \text{Sin}[d x] + 72 a^2 b C \text{Sin}[d x] + 24 b^3 C \text{Sin}[d x] - 12 A b^3 \text{Sin}[2 c + d x] - 36 a b^2 B \text{Sin}[2 c + d x] - 36 a^2 b C \text{Sin}[2 c + d x] + 6 a^3 A \text{Sin}[c + 2 d x] + 6 b^3 B \text{Sin}[c + 2 d x] + 18 a b^2 C \text{Sin}[c + 2 d x] + 6 a^3 A \text{Sin}[3 c + 2 d x] + 6 b^3 B \text{Sin}[3 c + 2 d x] + 18 a b^2 C \text{Sin}[3 c + 2 d x] + 12 A b^3 \text{Sin}[2 c + 3 d x] + 36 a b^2 B \text{Sin}[2 c + 3 d x] + 36 a^2 b C \text{Sin}[2 c + 3 d x] + 8 b^3 C \text{Sin}[2 c + 3 d x] + 3 a^3 A \text{Sin}[3 c + 4 d x] + 3 a^3 A \text{Sin}[5 c + 4 d x]\big)\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c + d x]^2 (a + b \text{Sec}[c + d x])^3 \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 6, 0\right\}$$

$$\frac{1}{2} a \left(a^2 A + 6 A b^2 + 6 a b B + 2 a^2 C\right) x + \frac{b \left(2 A b^2 + 6 a b B + 6 a^2 C + b^2 C\right) \text{ArcTanh}[\text{Sin}[c + d x]]}{2 d} + \frac{(3 A b + 2 a B) (a + b \text{Sec}[c + d x])^2 \text{Sin}[c + d x]}{2 d} + \frac{A \text{Cos}[c + d x] (a + b \text{Sec}[c + d x])^3 \text{Sin}[c + d x]}{2 d} - \frac{b \left(5 a A b + 2 a^2 B - 2 b^2 B - 5 a b C\right) \text{Tan}[c + d x]}{2 d} - \frac{b (4 A b + 2 a B - b C) (a + b \text{Sec}[c + d x]) \text{Tan}[c + d x]}{2 d}$$

$$\frac{a\left(a^2 A+6 A b^2+6 a b B+2 a^2 C\right) x \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\left(\left(-2 A b^3-6 a b^2 B-6 a^2 b C-b^3 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(2 A b^3+6 a b^2 B+6 a^2 b C+b^3 C\right) \operatorname{Cos}[c+d x]^5 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{2 a^2 (3 A b+a B) \operatorname{Cos}[d x] \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[c]}{d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{a^3 A \operatorname{Cos}[2 d x] \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[2 c]}{2 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{2 a^2 (3 A b+a B) \operatorname{Cos}[c] \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[d x]}{d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{a^3 A \operatorname{Cos}[2 c] \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sin}[2 d x]}{2 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{b^3 C \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{2 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}+$$

$$\frac{2 \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(b^3 B \operatorname{Sin}\left[\frac{d x}{2}\right]+3 a b^2 C \operatorname{Sin}\left[\frac{d x}{2}\right]\right)}{d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}-$$

$$\frac{b^3 C \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{2 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)^2}+$$

$$\frac{2 \operatorname{Cos}[c+d x]^5 (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(b^3 B \operatorname{Sin}\left[\frac{d x}{2}\right]+3 a b^2 C \operatorname{Sin}\left[\frac{d x}{2}\right]\right)}{d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right)}$$

Incorrect antiderivative:

$$\left\{\operatorname{Sec}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 8, 0\right\}$$

$$\frac{\left(32 a^3 A b+24 a A b^3+8 a^4 B+36 a^2 b^2 B+5 b^4 B+24 a^3 b C+20 a b^3 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{16 d}+$$

$$\frac{\left(105 a^4 A+420 a^2 A b^2+56 A b^4+280 a^3 b B+224 a b^3 B+70 a^4 C+336 a^2 b^2 C+48 b^4 C\right) \operatorname{Tan}[c+d x]}{105 d}+$$

$$\frac{\left(32 a^3 A b+24 a A b^3+8 a^4 B+36 a^2 b^2 B+5 b^4 B+24 a^3 b C+20 a b^3 C\right) \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{16 d}+$$

$$\frac{\left(1008 a^2 A b^2+224 A b^4+392 a^3 b B+721 a b^3 B+8 a^4 C+788 a^2 b^2 C+192 b^4 C\right) \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{840 d}+$$

$$\frac{\left(504 a A b^2+336 a^2 b B+175 b^3 B+24 a^3 C+412 a b^2 C\right) \operatorname{Sec}[c+d x]^2 (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{840 d}+$$

$$\frac{\left(14 A b^2+21 a b B+4 a^2 C+12 b^2 C\right) \operatorname{Sec}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{70 d}+$$

$$\frac{(7 b B+4 a C) \operatorname{Sec}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Tan}[c+d x]}{42 d}+\frac{C \operatorname{Sec}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Tan}[c+d x]}{7 d}$$

$$\left(\left(-32 a^3 A b-24 a A b^3-8 a^4 B-36 a^2 b^2 B-5 b^4 B-24 a^3 b C-20 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(32 a^3 A b+24 a A b^3+8 a^4 B+36 a^2 b^2 B+5 b^4 B+24 a^3 b C+20 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{53760 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c] \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(33600 a^4 A \operatorname{Sin}[d x]+147840 a^2 A b^2 \operatorname{Sin}[d x]+22400 A b^4 \operatorname{Sin}[d x]+98560 a^3 b B \operatorname{Sin}[d x]+89600 a b^3 B \operatorname{Sin}[d x]+24640 a^4 C \operatorname{Sin}[d x]+134400 a^2 b^2 C \operatorname{Sin}[d x]+26880 b^4 C \operatorname{Sin}[d x]-25200 a^4 A \operatorname{Sin}[2 c+d x]-87360 a^2 A b^2 \operatorname{Sin}[2 c+d x]-8960 A b^4 \operatorname{Sin}[2 c+d x]-58240 a^3 b B \operatorname{Sin}[2 c+d x]-35840 a b^3 B \operatorname{Sin}[2 c+d x]-14560 a^4 C \operatorname{Sin}[2 c+d x]-53760 a^2 b^2 C \operatorname{Sin}[2 c+d x]+16800 a^3 A b \operatorname{Sin}[c+2 d x]+26040 a A b^3 \operatorname{Sin}[c+2 d x]+4200 a^4 B \operatorname{Sin}[c+2 d x]+39060 a^2 b^2 B \operatorname{Sin}[c+2 d x]+9905 b^4 B \operatorname{Sin}[c+2 d x]+26040 a^3 b C \operatorname{Sin}[c+2 d x]+39620 a b^3 C \operatorname{Sin}[c+2 d x]+16800 a^3 A b \operatorname{Sin}[3 c+2 d x]+26040 a A b^3 \operatorname{Sin}[3 c+2 d x]+4200 a^4 B \operatorname{Sin}[3 c+2 d x]+39060 a^2 b^2 B \operatorname{Sin}[3 c+2 d x]+9905 b^4 B \operatorname{Sin}[3 c+2 d x]+26040 a^3 b C \operatorname{Sin}[3 c+2 d x]+39620 a b^3 C \operatorname{Sin}[3 c+2 d x]+25200 a^4 A \operatorname{Sin}[2 c+3 d x]+120960 a^2 A b^2 \operatorname{Sin}[2 c+3 d x]+18816 A b^4 \operatorname{Sin}[2 c+3 d x]+80640 a^3 b B \operatorname{Sin}[2 c+3 d x]+75264 a b^3 B \operatorname{Sin}[2 c+3 d x]+20160 a^4 C \operatorname{Sin}[2 c+3 d x]+112896 a^2 b^2 C \operatorname{Sin}[2 c+3 d x]+16128 b^4 C \operatorname{Sin}[2 c+3 d x]-10080 a^4 A \operatorname{Sin}[4 c+3 d x]-20160 a^2 A b^2 \operatorname{Sin}[4 c+3 d x]-13440 a^3 b B \operatorname{Sin}[4 c+3 d x]-3360 a^4 C \operatorname{Sin}[4 c+3 d x]+13440 a^3 A b \operatorname{Sin}[3 c+4 d x]+16800 a A b^3 \operatorname{Sin}[3 c+4 d x]+3360 a^4 B \operatorname{Sin}[3 c+4 d x]+25200 a^2 b^2 B \operatorname{Sin}[3 c+4 d x]+3500 b^4 B \operatorname{Sin}[3 c+4 d x]+16800 a^3 b C \operatorname{Sin}[3 c+4 d x]+14000 a b^3 C \operatorname{Sin}[3 c+4 d x]+13440 a^3 A b \operatorname{Sin}[5 c+4 d x]+16800 a A b^3 \operatorname{Sin}[5 c+4 d x]+3360 a^4 B \operatorname{Sin}[5 c+4 d x]+25200 a^2 b^2 B \operatorname{Sin}[5 c+4 d x]+3500 b^4 B \operatorname{Sin}[5 c+4 d x]+16800 a^3 b C \operatorname{Sin}[5 c+4 d x]+14000 a b^3 C \operatorname{Sin}[5 c+4 d x]+10080 a^4 A \operatorname{Sin}[4 c+5 d x]+47040 a^2 A b^2 \operatorname{Sin}[4 c+5 d x]+6272 A b^4 \operatorname{Sin}[4 c+5 d x]+31360 a^3 b B \operatorname{Sin}[4 c+5 d x]+25088 a b^3 B \operatorname{Sin}[4 c+5 d x]+7840 a^4 C \operatorname{Sin}[4 c+5 d x]+37632 a^2 b^2 C \operatorname{Sin}[4 c+5 d x]+5376 b^4 C \operatorname{Sin}[4 c+5 d x]-1680 a^4 A \operatorname{Sin}[6 c+5 d x]+3360 a^3 A b \operatorname{Sin}[5 c+6 d x]+2520 a A b^3 \operatorname{Sin}[5 c+6 d x]+840 a^4 B \operatorname{Sin}[5 c+6 d x]+3780 a^2 b^2 B \operatorname{Sin}[5 c+6 d x]+525 b^4 B \operatorname{Sin}[5 c+6 d x]+2520 a^3 b C \operatorname{Sin}[5 c+6 d x]+2100 a b^3 C \operatorname{Sin}[5 c+6 d x]+3360 a^3 A b \operatorname{Sin}[7 c+6 d x]+2520 a A b^3 \operatorname{Sin}[7 c+6 d x]+840 a^4 B \operatorname{Sin}[7 c+6 d x]+3780 a^2 b^2 B \operatorname{Sin}[7 c+6 d x]+525 b^4 B \operatorname{Sin}[7 c+6 d x]+2520 a^3 b C \operatorname{Sin}[7 c+6 d x]+2100 a b^3 C \operatorname{Sin}[7 c+6 d x]+1680 a^4 A \operatorname{Sin}[6 c+7 d x]+6720 a^2 A b^2 \operatorname{Sin}[6 c+7 d x]+896 A b^4 \operatorname{Sin}[6 c+7 d x]+4480 a^3 b B \operatorname{Sin}[6 c+7 d x]+3584 a b^3 B \operatorname{Sin}[6 c+7 d x]+1120 a^4 C \operatorname{Sin}[6 c+7 d x]+5376 a^2 b^2 C \operatorname{Sin}[6 c+7 d x]+768 b^4 C \operatorname{Sin}[6 c+7 d x]\right)$$

Incorrect antiderivative:

$$\left\{\operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{\left(16 a^4 A+48 a^2 A b^2+6 A b^4+32 a^3 b B+24 a b^3 B+8 a^4 C+36 a^2 b^2 C+5 b^4 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{16 d}+$$

$$\frac{\left(60 a^3 A b+40 a A b^3+15 a^4 B+60 a^2 b^2 B+8 b^4 B+40 a^3 b C+32 a b^3 C\right) \operatorname{Tan}[c+d x]}{15 d}+$$

$$\frac{\left(460 a^2 A b^2+90 A b^4+192 a^3 b B+296 a b^3 B+8 a^4 C+334 a^2 b^2 C+75 b^4 C\right) \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{240 d}+$$

$$\frac{\left(50 a A b^2+36 a^2 b B+16 b^3 B+4 a^3 C+39 a b^2 C\right) \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{60 d}+$$

$$\frac{\left(30 A b^2+48 a b B+12 a^2 C+25 b^2 C\right) \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Tan}[c+d x]}{120 d}+$$

$$\frac{(3 b B+2 a C) \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Tan}[c+d x]}{15 d}+\frac{C \operatorname{Sec}[c+d x] (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Tan}[c+d x]}{6 d}$$

$$\left(\left(-16 a^4 A-48 a^2 A b^2-6 A b^4-32 a^3 b B-24 a b^3 B-8 a^4 C-36 a^2 b^2 C-5 b^4 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(16 a^4 A+48 a^2 A b^2+6 A b^4+32 a^3 b B+24 a b^3 B+8 a^4 C+36 a^2 b^2 C+5 b^4 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(8 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{3840 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \text{Sec}[c] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}$$

$$\left(-9600 a^3 A b \text{Sin}[c]-6400 a A b^3 \text{Sin}[c]-2400 a^4 B \text{Sin}[c]-9600 a^2 b^2 B \text{Sin}[c]-1280 b^4 B \text{Sin}[c]-6400 a^3 b C \text{Sin}[c]-5120 a b^3 C \text{Sin}[c]+1440 a^2 A b^2 \text{Sin}[d x]+420 A b^4 \text{Sin}[d x]+960 a^3 b B \text{Sin}[d x]+1680 a b^3 B \text{Sin}[d x]+240 a^4 C \text{Sin}[d x]+2520 a^2 b^2 C \text{Sin}[d x]+990 b^4 C \text{Sin}[d x]+1440 a^2 A b^2 \text{Sin}[2 c+d x]+420 A b^4 \text{Sin}[2 c+d x]+960 a^3 b B \text{Sin}[2 c+d x]+1680 a b^3 B \text{Sin}[2 c+d x]+240 a^4 C \text{Sin}[2 c+d x]+2520 a^2 b^2 C \text{Sin}[2 c+d x]+990 b^4 C \text{Sin}[2 c+d x]+9600 a^3 A b \text{Sin}[c+2 d x]+7680 a A b^3 \text{Sin}[c+2 d x]+2400 a^4 B \text{Sin}[c+2 d x]+11520 a^2 b^2 B \text{Sin}[c+2 d x]+1920 b^4 B \text{Sin}[c+2 d x]+7680 a^3 b C \text{Sin}[c+2 d x]+7680 a b^3 C \text{Sin}[c+2 d x]-4800 a^3 A b \text{Sin}[3 c+2 d x]-1920 a A b^3 \text{Sin}[3 c+2 d x]-1200 a^4 B \text{Sin}[3 c+2 d x]-2880 a^2 b^2 B \text{Sin}[3 c+2 d x]-1920 a^3 b C \text{Sin}[3 c+2 d x]+2160 a^2 A b^2 \text{Sin}[2 c+3 d x]+510 A b^4 \text{Sin}[2 c+3 d x]+1440 a^3 b B \text{Sin}[2 c+3 d x]+2040 a b^3 B \text{Sin}[2 c+3 d x]+360 a^4 C \text{Sin}[2 c+3 d x]+3060 a^2 b^2 C \text{Sin}[2 c+3 d x]+425 b^4 C \text{Sin}[2 c+3 d x]+2160 a^2 A b^2 \text{Sin}[4 c+3 d x]+510 A b^4 \text{Sin}[4 c+3 d x]+1440 a^3 b B \text{Sin}[4 c+3 d x]+2040 a b^3 B \text{Sin}[4 c+3 d x]+360 a^4 C \text{Sin}[4 c+3 d x]+3060 a^2 b^2 C \text{Sin}[4 c+3 d x]+425 b^4 C \text{Sin}[4 c+3 d x]+4800 a^3 A b \text{Sin}[3 c+4 d x]+3840 a A b^3 \text{Sin}[3 c+4 d x]+1200 a^4 B \text{Sin}[3 c+4 d x]+5760 a^2 b^2 B \text{Sin}[3 c+4 d x]+768 b^4 B \text{Sin}[3 c+4 d x]+3840 a^3 b C \text{Sin}[3 c+4 d x]+3072 a b^3 C \text{Sin}[3 c+4 d x]-960 a^3 A b \text{Sin}[5 c+4 d x]-240 a^4 B \text{Sin}[5 c+4 d x]+720 a^2 A b^2 \text{Sin}[4 c+5 d x]+90 A b^4 \text{Sin}[4 c+5 d x]+480 a^3 b B \text{Sin}[4 c+5 d x]+360 a b^3 B \text{Sin}[4 c+5 d x]+120 a^4 C \text{Sin}[4 c+5 d x]+540 a^2 b^2 C \text{Sin}[4 c+5 d x]+75 b^4 C \text{Sin}[4 c+5 d x]+720 a^2 A b^2 \text{Sin}[6 c+5 d x]+90 A b^4 \text{Sin}[6 c+5 d x]+480 a^3 b B \text{Sin}[6 c+5 d x]+360 a b^3 B \text{Sin}[6 c+5 d x]+120 a^4 C \text{Sin}[6 c+5 d x]+540 a^2 b^2 C \text{Sin}[6 c+5 d x]+75 b^4 C \text{Sin}[6 c+5 d x]+960 a^3 A b \text{Sin}[5 c+6 d x]+640 a A b^3 \text{Sin}[5 c+6 d x]+240 a^4 B \text{Sin}[5 c+6 d x]+960 a^2 b^2 B \text{Sin}[5 c+6 d x]+128 b^4 B \text{Sin}[5 c+6 d x]+640 a^3 b C \text{Sin}[5 c+6 d x]+512 a b^3 C \text{Sin}[5 c+6 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$a^4 A x+\frac{\left(32 a^3 A b+16 a A b^3+8 a^4 B+24 a^2 b^2 B+3 b^4 B+16 a^3 b C+12 a b^3 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{8 d}+\frac{\left(520 a^2 A b^2+80 A b^4+250 a^3 b B+275 a b^3 B+24 a^4 C+332 a^2 b^2 C+64 b^4 C\right) \text{Tan}[c+d x]}{120 d}+\frac{\left(160 a A b^2+130 a^2 b B+45 b^3 B+24 a^3 C+116 a b^2 C\right) (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{120 d}+\frac{\left(20 A b^2+35 a b B+12 a^2 C+16 b^2 C\right) (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{60 d}+\frac{(5 b B+4 a C) (a+b \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{20 d}+\frac{C (a+b \text{Sec}[c+d x])^4 \text{Tan}[c+d x]}{5 d}$$

$$\left(\left(-32 a^3 A b-16 a A b^3-8 a^4 B-24 a^2 b^2 B-3 b^4 B-16 a^3 b C-12 a b^3 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(32 a^3 A b+16 a A b^3+8 a^4 B+24 a^2 b^2 B+3 b^4 B+16 a^3 b C+12 a b^3 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{960 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \text{Cos}[c+d x] \text{Sec}[c] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}$$

$$\left(600 a^4 A d x \text{Cos}[d x]+600 a^4 A d x \text{Cos}[2 c+d x]+300 a^4 A d x \text{Cos}[2 c+3 d x]+300 a^4 A d x \text{Cos}[4 c+3 d x]+60 a^4 A d x \text{Cos}[4 c+5 d x]+60 a^4 A d x \text{Cos}[6 c+5 d x]+4320 a^2 A b^2 \text{Sin}[d x]+560 A b^4 \text{Sin}[d x]+2880 a^3 b B \text{Sin}[d x]+2240 a b^3 B \text{Sin}[d x]+720 a^4 C \text{Sin}[d x]+3360 a^2 b^2 C \text{Sin}[d x]+640 b^4 C \text{Sin}[d x]-2880 a^2 A b^2 \text{Sin}[2 c+d x]-240 A b^4 \text{Sin}[2 c+d x]-1920 a^3 b B \text{Sin}[2 c+d x]-960 a b^3 B \text{Sin}[2 c+d x]-480 a^4 C \text{Sin}[2 c+d x]-1440 a^2 b^2 C \text{Sin}[2 c+d x]+480 a A b^3 \text{Sin}[c+2 d x]+720 a^2 b^2 B \text{Sin}[c+2 d x]+210 b^4 B \text{Sin}[c+2 d x]+480 a^3 b C \text{Sin}[c+2 d x]+840 a b^3 C \text{Sin}[c+2 d x]+480 a A b^3 \text{Sin}[3 c+2 d x]+720 a^2 b^2 B \text{Sin}[3 c+2 d x]+210 b^4 B \text{Sin}[3 c+2 d x]+480 a^3 b C \text{Sin}[3 c+2 d x]+840 a b^3 C \text{Sin}[3 c+2 d x]+2880 a^2 A b^2 \text{Sin}[2 c+3 d x]+400 A b^4 \text{Sin}[2 c+3 d x]+1920 a^3 b B \text{Sin}[2 c+3 d x]+1600 a b^3 B \text{Sin}[2 c+3 d x]+480 a^4 C \text{Sin}[2 c+3 d x]+2400 a^2 b^2 C \text{Sin}[2 c+3 d x]+320 b^4 C \text{Sin}[2 c+3 d x]-720 a^2 A b^2 \text{Sin}[4 c+3 d x]-480 a^3 b B \text{Sin}[4 c+3 d x]-120 a^4 C \text{Sin}[4 c+3 d x]+240 a A b^3 \text{Sin}[3 c+4 d x]+360 a^2 b^2 B \text{Sin}[3 c+4 d x]+45 b^4 B \text{Sin}[3 c+4 d x]+240 a^3 b C \text{Sin}[3 c+4 d x]+180 a b^3 C \text{Sin}[3 c+4 d x]+240 a A b^3 \text{Sin}[5 c+4 d x]+360 a^2 b^2 B \text{Sin}[5 c+4 d x]+45 b^4 B \text{Sin}[5 c+4 d x]+240 a^3 b C \text{Sin}[5 c+4 d x]+180 a b^3 C \text{Sin}[5 c+4 d x]+720 a^2 A b^2 \text{Sin}[4 c+5 d x]+80 A b^4 \text{Sin}[4 c+5 d x]+480 a^3 b B \text{Sin}[4 c+5 d x]+320 a b^3 B \text{Sin}[4 c+5 d x]+120 a^4 C \text{Sin}[4 c+5 d x]+480 a^2 b^2 C \text{Sin}[4 c+5 d x]+64 b^4 C \text{Sin}[4 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$a^3 (4 A b+a B) x+\frac{\left(48 a^2 A b^2+4 A b^4+32 a^3 b B+16 a b^3 B+8 a^4 C+24 a^2 b^2 C+3 b^4 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{8 d}+\frac{A (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{d}-\frac{b \left(24 a^3 A-84 a A b^2-104 a^2 b B-16 b^3 B-50 a^3 C-55 a b^2 C\right) \text{Tan}[c+d x]}{24 d}-\frac{b \left(24 a^2 A-12 A b^2-32 a b B-26 a^2 C-9 b^2 C\right) (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{24 d}-\frac{b (12 a A-4 b B-7 a C) (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{12 d}-\frac{b (4 A-C) (a+b \text{Sec}[c+d x])^3 \text{Tan}[c+d x]}{4 d}$$

$$\left(\left(-48 a^2 A b^2-4 A b^4-32 a^3 b B-16 a b^3 B-8 a^4 C-24 a^2 b^2 C-3 b^4 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(48 a^2 A b^2+4 A b^4+32 a^3 b B+16 a b^3 B+8 a^4 C+24 a^2 b^2 C+3 b^4 C\right) \text{Cos}[c+d x]^6 \text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(4 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{96 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \text{Cos}[c+d x]^2 \text{Sec}[c] (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}$$

$$\left(288 a^3 A b d x \text{Cos}[c]+72 a^4 B d x \text{Cos}[c]+192 a^3 A b d x \text{Cos}[c+2 d x]+48 a^4 B d x \text{Cos}[c+2 d x]+192 a^3 A b d x \text{Cos}[3 c+2 d x]+48 a^4 B d x \text{Cos}[3 c+2 d x]+48 a^3 A b d x \text{Cos}[3 c+4 d x]+12 a^4 B d x \text{Cos}[3 c+4 d x]+48 a^3 A b d x \text{Cos}[5 c+4 d x]+12 a^4 B d x \text{Cos}[5 c+4 d x]-288 a A b^3 \text{Sin}[c]-432 a^2 b^2 B \text{Sin}[c]-48 b^4 B \text{Sin}[c]-288 a^3 b C \text{Sin}[c]-192 a b^3 C \text{Sin}[c]+12 a^4 A \text{Sin}[d x]+12 A b^4 \text{Sin}[d x]+48 a b^3 B \text{Sin}[d x]+72 a^2 b^2 C \text{Sin}[d x]+33 b^4 C \text{Sin}[d x]+12 a^4 A \text{Sin}[2 c+d x]+12 A b^4 \text{Sin}[2 c+d x]+48 a b^3 B \text{Sin}[2 c+d x]+72 a^2 b^2 C \text{Sin}[2 c+d x]+33 b^4 C \text{Sin}[2 c+d x]+288 a A b^3 \text{Sin}[c+2 d x]+432 a^2 b^2 B \text{Sin}[c+2 d x]+64 b^4 B \text{Sin}[c+2 d x]+288 a^3 b C \text{Sin}[c+2 d x]+256 a b^3 C \text{Sin}[c+2 d x]-96 a A b^3 \text{Sin}[3 c+2 d x]-144 a^2 b^2 B \text{Sin}[3 c+2 d x]-96 a^3 b C \text{Sin}[3 c+2 d x]+18 a^4 A \text{Sin}[2 c+3 d x]+12 A b^4 \text{Sin}[2 c+3 d x]+48 a b^3 B \text{Sin}[2 c+3 d x]+72 a^2 b^2 C \text{Sin}[2 c+3 d x]+9 b^4 C \text{Sin}[2 c+3 d x]+18 a^4 A \text{Sin}[4 c+3 d x]+12 A b^4 \text{Sin}[4 c+3 d x]+48 a b^3 B \text{Sin}[4 c+3 d x]+72 a^2 b^2 C \text{Sin}[4 c+3 d x]+9 b^4 C \text{Sin}[4 c+3 d x]+96 a A b^3 \text{Sin}[3 c+4 d x]+144 a^2 b^2 B \text{Sin}[3 c+4 d x]+16 b^4 B \text{Sin}[3 c+4 d x]+96 a^3 b C \text{Sin}[3 c+4 d x]+64 a b^3 C \text{Sin}[3 c+4 d x]+6 a^4 A \text{Sin}[4 c+5 d x]+6 a^4 A \text{Sin}[6 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d x]^2 (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{2} a^2 \left(a^2 A+12 A b^2+8 a b B+2 a^2 C\right) x+\frac{b \left(8 a A b^2+12 a^2 b B+b^3 B+8 a^3 C+4 a b^2 C\right) \text{ArcTanh}[\text{Sin}[c+d x]]}{2 d}+\frac{(2 A b+a B) (a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{d}+\frac{A \text{Cos}[c+d x] (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{2 d}-\frac{b \left(21 a^2 A b-6 A b^3+6 a^3 B-21 a b^2 B-26 a^2 b C-4 b^3 C\right) \text{Tan}[c+d x]}{6 d}-\frac{b \left(18 a A b+6 a^2 B-3 b^2 B-8 a b C\right) (a+b \text{Sec}[c+d x]) \text{Tan}[c+d x]}{6 d}-\frac{b (15 A b+6 a B-2 b C) (a+b \text{Sec}[c+d x])^2 \text{Tan}[c+d x]}{6 d}$$

$$\left(\left(-8 a A b^3-12 a^2 b^2 B-b^4 B-8 a^3 b C-4 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(8 a A b^3+12 a^2 b^2 B+b^4 B+8 a^3 b C+4 a b^3 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{96 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Cos}[c+d x]^3 \operatorname{Sec}[c] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(36 a^4 A d x \operatorname{Cos}[d x]+432 a^2 A b^2 d x \operatorname{Cos}[d x]+288 a^3 b B d x \operatorname{Cos}[d x]+72 a^4 C d x \operatorname{Cos}[d x]+36 a^4 A d x \operatorname{Cos}[2 c+d x]+432 a^2 A b^2 d x \operatorname{Cos}[2 c+d x]+288 a^3 b B d x \operatorname{Cos}[2 c+d x]+72 a^4 C d x \operatorname{Cos}[2 c+d x]+12 a^4 A d x \operatorname{Cos}[2 c+3 d x]+144 a^2 A b^2 d x \operatorname{Cos}[2 c+3 d x]+96 a^3 b B d x \operatorname{Cos}[2 c+3 d x]+24 a^4 C d x \operatorname{Cos}[2 c+3 d x]+12 a^4 A d x \operatorname{Cos}[4 c+3 d x]+144 a^2 A b^2 d x \operatorname{Cos}[4 c+3 d x]+96 a^3 b B d x \operatorname{Cos}[4 c+3 d x]+24 a^4 C d x \operatorname{Cos}[4 c+3 d x]+6 a^4 A \operatorname{Sin}[d x]+96 A b^4 \operatorname{Sin}[d x]+384 a b^3 B \operatorname{Sin}[d x]+576 a^2 b^2 C \operatorname{Sin}[d x]+96 b^4 C \operatorname{Sin}[d x]+6 a^4 A \operatorname{Sin}[2 c+d x]-48 A b^4 \operatorname{Sin}[2 c+d x]-192 a b^3 B \operatorname{Sin}[2 c+d x]-288 a^2 b^2 C \operatorname{Sin}[2 c+d x]+96 a^3 A b \operatorname{Sin}[c+2 d x]+24 a^4 B \operatorname{Sin}[c+2 d x]+24 b^4 B \operatorname{Sin}[c+2 d x]+96 a b^3 C \operatorname{Sin}[c+2 d x]+96 a^3 A b \operatorname{Sin}[3 c+2 d x]+24 a^4 B \operatorname{Sin}[3 c+2 d x]+24 b^4 B \operatorname{Sin}[3 c+2 d x]+96 a b^3 C \operatorname{Sin}[3 c+2 d x]+9 a^4 A \operatorname{Sin}[2 c+3 d x]+48 A b^4 \operatorname{Sin}[2 c+3 d x]+192 a b^3 B \operatorname{Sin}[2 c+3 d x]+288 a^2 b^2 C \operatorname{Sin}[2 c+3 d x]+32 b^4 C \operatorname{Sin}[2 c+3 d x]+9 a^4 A \operatorname{Sin}[4 c+3 d x]+48 a^3 A b \operatorname{Sin}[3 c+4 d x]+12 a^4 B \operatorname{Sin}[3 c+4 d x]+48 a^3 A b \operatorname{Sin}[5 c+4 d x]+12 a^4 B \operatorname{Sin}[5 c+4 d x]+3 a^4 A \operatorname{Sin}[4 c+5 d x]+3 a^4 A \operatorname{Sin}[6 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^3 (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{2} a \left(4 a^2 A b+8 A b^3+a^3 B+12 a b^2 B+8 a^2 b C\right) x+\frac{b^2 \left(2 A b^2+8 a b B+12 a^2 C+b^2 C\right) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{2 d}+\frac{\left(4 a^2 A+12 A b^2+15 a b B+6 a^2 C\right) (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{6 d}+\frac{(4 A b+3 a B) \operatorname{Cos}[c+d x] (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{6 d}+\frac{A \operatorname{Cos}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Sin}[c+d x]}{3 d}-\frac{b \left(4 a^3 A+26 a A b^2+21 a^2 b B-6 b^3 B+6 a^3 C-21 a b^2 C\right) \operatorname{Tan}[c+d x]}{6 d}-\frac{b \left(4 a^2 A+18 A b^2+18 a b B+6 a^2 C-3 b^2 C\right) (a+b \operatorname{Sec}[c+d x]) \operatorname{Tan}[c+d x]}{6 d}$$

$$\left(\left(-2 A b^4-8 a b^3 B-12 a^2 b^2 C-b^4 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(\left(2 A b^4+8 a b^3 B+12 a^2 b^2 C+b^4 C\right) \operatorname{Cos}[c+d x]^6 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\frac{1}{48 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Cos}[c+d x]^4 \operatorname{Sec}[c] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$
$$\left(96 a^3 A b d x \operatorname{Cos}[c]+192 a A b^3 d x \operatorname{Cos}[c]+24 a^4 B d x \operatorname{Cos}[c]+288 a^2 b^2 B d x \operatorname{Cos}[c]+192 a^3 b C d x \operatorname{Cos}[c]+\right.$$
$$48 a^3 A b d x \operatorname{Cos}[c+2 d x]+96 a A b^3 d x \operatorname{Cos}[c+2 d x]+12 a^4 B d x \operatorname{Cos}[c+2 d x]+144 a^2 b^2 B d x \operatorname{Cos}[c+2 d x]+$$
$$96 a^3 b C d x \operatorname{Cos}[c+2 d x]+48 a^3 A b d x \operatorname{Cos}[3 c+2 d x]+96 a A b^3 d x \operatorname{Cos}[3 c+2 d x]+12 a^4 B d x \operatorname{Cos}[3 c+2 d x]+$$
$$144 a^2 b^2 B d x \operatorname{Cos}[3 c+2 d x]+96 a^3 b C d x \operatorname{Cos}[3 c+2 d x]-48 b^4 B \operatorname{Sin}[c]-192 a b^3 C \operatorname{Sin}[c]+10 a^4 A \operatorname{Sin}[d x]+$$
$$72 a^2 A b^2 \operatorname{Sin}[d x]+48 a^3 b B \operatorname{Sin}[d x]+12 a^4 C \operatorname{Sin}[d x]+24 b^4 C \operatorname{Sin}[d x]+10 a^4 A \operatorname{Sin}[2 c+d x]+72 a^2 A b^2 \operatorname{Sin}[2 c+d x]+$$
$$48 a^3 b B \operatorname{Sin}[2 c+d x]+12 a^4 C \operatorname{Sin}[2 c+d x]+24 b^4 C \operatorname{Sin}[2 c+d x]+24 a^3 A b \operatorname{Sin}[c+2 d x]+6 a^4 B \operatorname{Sin}[c+2 d x]+$$
$$48 b^4 B \operatorname{Sin}[c+2 d x]+192 a b^3 C \operatorname{Sin}[c+2 d x]+24 a^3 A b \operatorname{Sin}[3 c+2 d x]+6 a^4 B \operatorname{Sin}[3 c+2 d x]+11 a^4 A \operatorname{Sin}[2 c+3 d x]+$$
$$72 a^2 A b^2 \operatorname{Sin}[2 c+3 d x]+48 a^3 b B \operatorname{Sin}[2 c+3 d x]+12 a^4 C \operatorname{Sin}[2 c+3 d x]+11 a^4 A \operatorname{Sin}[4 c+3 d x]+$$
$$72 a^2 A b^2 \operatorname{Sin}[4 c+3 d x]+48 a^3 b B \operatorname{Sin}[4 c+3 d x]+12 a^4 C \operatorname{Sin}[4 c+3 d x]+12 a^3 A b \operatorname{Sin}[3 c+4 d x]+$$
$$\left.3 a^4 B \operatorname{Sin}[3 c+4 d x]+12 a^3 A b \operatorname{Sin}[5 c+4 d x]+3 a^4 B \operatorname{Sin}[5 c+4 d x]+a^4 A \operatorname{Sin}[4 c+5 d x]+a^4 A \operatorname{Sin}[6 c+5 d x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^4 (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{1}{8}\left(3 a^4 A+24 a^2 A b^2+8 A b^4+16 a^3 b B+32 a b^3 B+4 a^4 C+48 a^2 b^2 C\right) x+\frac{b^3 (b B+4 a C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{d}+$$
$$\frac{\left(23 a^2 A b+12 A b^3+8 a^3 B+36 a b^2 B+36 a^2 b C\right) (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{12 d}+$$
$$\frac{\left(3 a^2 A+4 A b^2+8 a b B+4 a^2 C\right) \operatorname{Cos}[c+d x] (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{8 d}+$$
$$\frac{(A b+a B) \operatorname{Cos}[c+d x]^2 (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{3 d}+\frac{A \operatorname{Cos}[c+d x]^3 (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Sin}[c+d x]}{4 d}-$$
$$\frac{b\left(55 a^2 A b+50 A b^3+16 a^3 B+104 a b^2 B+84 a^2 b C-24 b^3 C\right) \operatorname{Tan}[c+d x]}{24 d}$$

$$\frac{1}{192 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)])} \operatorname{Cos}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$
$$\left(-384 b^3 (b B+4 a C) \operatorname{Cos}[c+d x] \left(\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]-\operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)+\right.$$
$$\operatorname{Sec}[c] \left(24 \left(8 A b^4+16 a^3 b B+32 a b^3 B+24 a^2 b^2 (A+2 C)+a^4 (3 A+4 C)\right) d x \operatorname{Cos}[d x]+24\right.$$
$$\left(8 A b^4+16 a^3 b B+32 a b^3 B+24 a^2 b^2 (A+2 C)+a^4 (3 A+4 C)\right) d x \operatorname{Cos}[2 c+d x]+24 a^4 A \operatorname{Sin}[d x]+144 a^2 A b^2 \operatorname{Sin}[d x]+$$
$$96 a^3 b B \operatorname{Sin}[d x]+24 a^4 C \operatorname{Sin}[d x]+384 b^4 C \operatorname{Sin}[d x]+24 a^4 A \operatorname{Sin}[2 c+d x]+144 a^2 A b^2 \operatorname{Sin}[2 c+d x]+$$
$$96 a^3 b B \operatorname{Sin}[2 c+d x]+24 a^4 C \operatorname{Sin}[2 c+d x]+320 a^3 A b \operatorname{Sin}[c+2 d x]+384 a A b^3 \operatorname{Sin}[c+2 d x]+80 a^4 B \operatorname{Sin}[c+2 d x]+$$
$$576 a^2 b^2 B \operatorname{Sin}[c+2 d x]+384 a^3 b C \operatorname{Sin}[c+2 d x]+320 a^3 A b \operatorname{Sin}[3 c+2 d x]+384 a A b^3 \operatorname{Sin}[3 c+2 d x]+$$
$$80 a^4 B \operatorname{Sin}[3 c+2 d x]+576 a^2 b^2 B \operatorname{Sin}[3 c+2 d x]+384 a^3 b C \operatorname{Sin}[3 c+2 d x]+27 a^4 A \operatorname{Sin}[2 c+3 d x]+$$
$$144 a^2 A b^2 \operatorname{Sin}[2 c+3 d x]+96 a^3 b B \operatorname{Sin}[2 c+3 d x]+24 a^4 C \operatorname{Sin}[2 c+3 d x]+27 a^4 A \operatorname{Sin}[4 c+3 d x]+$$
$$144 a^2 A b^2 \operatorname{Sin}[4 c+3 d x]+96 a^3 b B \operatorname{Sin}[4 c+3 d x]+24 a^4 C \operatorname{Sin}[4 c+3 d x]+32 a^3 A b \operatorname{Sin}[3 c+4 d x]+$$
$$\left.\left.8 a^4 B \operatorname{Sin}[3 c+4 d x]+32 a^3 A b \operatorname{Sin}[5 c+4 d x]+8 a^4 B \operatorname{Sin}[5 c+4 d x]+3 a^4 A \operatorname{Sin}[4 c+5 d x]+3 a^4 A \operatorname{Sin}[6 c+5 d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$-\frac{\left(2\,a\,A\,b^2-2\,a^2\,b\,B-b^3\,B+2\,a^3\,C+a\,b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,b^4\,d}-\frac{2\,a^2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\sqrt{a^2-b^2}\,d}+$$

$$\frac{\left(3\,A\,b^2-3\,a\,b\,B+3\,a^2\,C+2\,b^2\,C\right)\text{Tan}[c+d\,x]}{3\,b^3\,d}+\frac{(b\,B-a\,C)\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^2\,d}+\frac{C\,\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\frac{1}{12\,b^4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,(c+d\,x)])\,(a+b\,\text{Sec}[c+d\,x])}(b+a\,\text{Cos}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(12\left(-2\,a^2\,b\,B-b^3\,B+2\,a^3\,C+a\,b^2\,(2\,A+C)\right)\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]-\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$

$$12\left(-2\,a^2\,b\,B-b^3\,B+2\,a^3\,C+a\,b^2\,(2\,A+C)\right)\text{Cos}[c+d\,x]\,\text{Log}\left[\text{Cos}\left[\frac{1}{2}(c+d\,x)\right]+\text{Sin}\left[\frac{1}{2}(c+d\,x)\right]\right]-$$

$$\frac{48\,i\,a^2\left(A\,b^2+a\,(-b\,B+a\,C)\right)\text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d\,x}{2}\right](i\,\text{Cos}[c]+\text{Sin}[c])\left(-b\,\text{Sin}\left[\frac{d\,x}{2}\right]+a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\text{Cos}[c]-i\,\text{Sin}[c])^2}}\right]\text{Cos}[c+d\,x]\,(\text{Cos}[c]-i\,\text{Sin}[c])}{\sqrt{a^2-b^2}\,\sqrt{(\text{Cos}[c]-i\,\text{Sin}[c])^2}}+$$

$$b\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\left(12\left(A\,b^2-a\,b\,B+a^2\,C+b^2\,C\right)\text{Sin}[d\,x]-6\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[2\,c+d\,x]+\right.$$

$$3\,b^2\,B\,\text{Sin}[c+2\,d\,x]-3\,a\,b\,C\,\text{Sin}[c+2\,d\,x]+3\,b^2\,B\,\text{Sin}[3\,c+2\,d\,x]-3\,a\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+$$

$$\left.6\,A\,b^2\,\text{Sin}[2\,c+3\,d\,x]-6\,a\,b\,B\,\text{Sin}[2\,c+3\,d\,x]+6\,a^2\,C\,\text{Sin}[2\,c+3\,d\,x]+4\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]\right)\Bigg)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 6,\ 0\right\}$$

$$\frac{\left(2\,A\,b^2-2\,a\,b\,B+2\,a^2\,C+b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,b^3\,d}+$$

$$\frac{2\,a\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3\sqrt{a^2-b^2}\,d}+\frac{(b\,B-a\,C)\,\text{Tan}[c+d\,x]}{b^2\,d}+\frac{C\,\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b\,d}$$

$$\frac{1}{2 b^3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])} \operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x])$$

$$\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-2 \left(2 A b^2-2 a b B+2 a^2 C+b^2 C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+\right.$$

$$2 \left(2 A b^2-2 a b B+2 a^2 C+b^2 C\right) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$

$$\frac{8 a \left(A b^2+a (-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\frac{b^2 C}{\left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}+\frac{4 b (b B-a C) \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}-$$

$$\left.\frac{b^2 C}{\left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)^2}+\frac{4 b (b B-a C) \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 5, 0\right\}$$

$$\frac{(b B-a C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{b^2 d}-\frac{2 \left(A b^2-a b B+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^2 \sqrt{a^2-b^2} d}+\frac{C \operatorname{Tan}[c+d x]}{b d}$$

$$\frac{1}{b^2 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])}$$
$$2 \operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

$$\left(-(b B-a C) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+(b B-a C) \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]-\right.$$

$$\frac{2 i \left(A b^2+a (-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\left.\frac{b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}+\frac{b C \operatorname{Sin}\left[\frac{d x}{2}\right]}{\left(\operatorname{Cos}\left[\frac{c}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}\right]\right) \left(\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right)}\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{a+b \operatorname{Sec}[c+d x]}, x, 4, 0\right\}$$

$$\frac{A x}{a}+\frac{C \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{b d}+\frac{2\left(A b^2-a b B+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a b \sqrt{a^2-b^2}\, d}$$

$$\Bigg(2 \operatorname{Cos}[c+d x]\,(b+a \operatorname{Cos}[c+d x])\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

$$\Bigg(\sqrt{a^2-b^2}\left(A b d x-a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]+a C \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2}(c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2}(c+d x)\right]\right]\right)$$

$$\sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}+$$

$$2\left(A b^2+a(-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right](i \operatorname{Cos}[c]+\operatorname{Sin}[c])\left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2}\sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right](i \operatorname{Cos}[c]+\operatorname{Sin}[c])\Bigg)\Bigg)\Big/$$

$$\left(a b \sqrt{a^2-b^2}\, d\,(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2(c+d x)])\,(a+b \operatorname{Sec}[c+d x])\sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 4, 0\right\}$$

$$-\frac{(A b-a B) x}{a^2}-\frac{2\left(A b^2-a b B+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^2 \sqrt{a^2-b^2}\, d}+\frac{A \operatorname{Sin}[c+d x]}{a d}$$

$$\Bigg(2\,(b+a \operatorname{Cos}[c+d x])\,(B+A \operatorname{Cos}[c+d x]+C \operatorname{Sec}[c+d x])$$

$$\Bigg((-A b+a B) x-\frac{2 i\left(A b^2+a(-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right](i \operatorname{Cos}[c]+\operatorname{Sin}[c])\left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2}\sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right](\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2}\, d\sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\frac{a A \operatorname{Cos}[d x] \operatorname{Sin}[c]}{d}+\frac{a A \operatorname{Cos}[c] \operatorname{Sin}[d x]}{d}\Bigg)\Bigg)\Big/\left(a^2(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2(c+d x)])\,(a+b \operatorname{Sec}[c+d x])\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]^3\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 6, 0\right\}$$

$$-\frac{\left(a^2 A b+2 A b^3-a^3 B-2 a b^2 B+2 a^2 b C\right) x}{2 a^4}-\frac{2 b^2\left(A b^2-a b B+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4 \sqrt{a^2-b^2}\, d}+$$

$$\frac{\left(2 a^2 A+3 A b^2-3 a b B+3 a^2 C\right) \operatorname{Sin}[c+d x]}{3 a^3 d}-\frac{(A b-a B) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{2 a^2 d}+\frac{A \operatorname{Cos}[c+d x]^2 \operatorname{Sin}[c+d x]}{3 a d}$$

$$\frac{1}{6 a^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])}$$

$$\operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(6 \left(-2 A b^3+a^3 B+2 a b^2 B-a^2 b (A+2 C)\right) x - \right.$$

$$\frac{24 i b^2 \left(A b^2+a (-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (\operatorname{Cos}[c]-i \operatorname{Sin}[c])}{\sqrt{a^2-b^2}\, d \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$\frac{3 a \left(4 A b^2-4 a b B+a^2 (3 A+4 C)\right) \operatorname{Cos}[d x] \operatorname{Sin}[c]}{d}+\frac{3 a^2 (-A b+a B) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{d}+\frac{a^3 A \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{d}+$$

$$\left.\frac{3 a \left(4 A b^2-4 a b B+a^2 (3 A+4 C)\right) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{d}+\frac{3 a^2 (-A b+a B) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{d}+\frac{a^3 A \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{d}\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 7, 0\right\}$$

$$\frac{\left(3 a^4 A+4 a^2 A b^2+8 A b^4-4 a^3 b B-8 a b^3 B+4 a^4 C+8 a^2 b^2 C\right) x}{8 a^5}+$$

$$\frac{2 b^3 \left(A b^2-a b B+a^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5 \sqrt{a^2-b^2}\, d}-\frac{\left(2 a^2 A b+3 A b^3-2 a^3 B-3 a b^2 B+3 a^2 b C\right) \operatorname{Sin}[c+d x]}{3 a^4 d}+$$

$$\frac{\left(3 a^2 A+4 A b^2-4 a b B+4 a^2 C\right) \operatorname{Cos}[c+d x] \operatorname{Sin}[c+d x]}{8 a^3 d}-\frac{(A b-a B) \operatorname{Cos}[c+d x]^2 \operatorname{Sin}[c+d x]}{3 a^2 d}+\frac{A \operatorname{Cos}[c+d x]^3 \operatorname{Sin}[c+d x]}{4 a d}$$

$$\frac{1}{48 a^5 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])}$$
$$\operatorname{Cos}[c+d x] (b+a \operatorname{Cos}[c+d x]) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

$$\left(36 a^4 A d x+48 a^2 A b^2 d x+96 A b^4 d x-48 a^3 b B d x-96 a b^3 B d x+48 a^4 C d x+96 a^2 b^2 C d x+\right.$$

$$\frac{192 b^3 \left(A b^2+a (-b B+a C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c])}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}+$$

$$24 a \left(-4 A b^3+3 a^3 B+4 a b^2 B-a^2 b (3 A+4 C)\right) \operatorname{Sin}[c+d x]+24 a^2 \left(A b^2-a b B+a^2 (A+C)\right) \operatorname{Sin}[2 (c+d x)]-$$

$$\left.8 a^3 A b \operatorname{Sin}[3 (c+d x)]+8 a^4 B \operatorname{Sin}[3 (c+d x)]+3 a^4 A \operatorname{Sin}[4 (c+d x)]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 8,\ 0\right\}$$

$$-\frac{\left(4\,a\,A\,b^2-6\,a^2\,b\,B-b^3\,B+8\,a^3\,C+2\,a\,b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,b^5\,d}-$$

$$\frac{2\,a^2\left(2\,a^2\,A\,b^2-3\,A\,b^4-3\,a^3\,b\,B+4\,a\,b^3\,B+4\,a^4\,C-5\,a^2\,b^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^5\left(a^2-b^2\right)^{3/2}\,d}+$$

$$\frac{\left(6\,a^2\,A\,b^2-3\,A\,b^4-9\,a^3\,b\,B+6\,a\,b^3\,B+12\,a^4\,C-7\,a^2\,b^2\,C-2\,b^4\,C\right)\text{Tan}[c+d\,x]}{3\,b^4\left(a^2-b^2\right)d}-$$

$$\frac{\left(2\,a\,A\,b^2-3\,a^2\,b\,B+b^3\,B+4\,a^3\,C-2\,a\,b^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^3\left(a^2-b^2\right)d}+$$

$$\frac{\left(3\,A\,b^2-3\,a\,b\,B+4\,a^2\,C-b^2\,C\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)d}-\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]^3\,\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{\left(4\,a\,A\,b^2-6\,a^2\,b\,B-b^3\,B+8\,a^3\,C+2\,a\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}$$

$$+\left(\left(-4\,a\,A\,b^2+6\,a^2\,b\,B+b^3\,B-8\,a^3\,C-2\,a\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\right.$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(b^5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{1}{\left(-a^2+b^2\right)(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}$$

$$\left(-2\,a^2\,A\,b^2+3\,A\,b^4+3\,a^3\,b\,B-4\,a\,b^3\,B-4\,a^4\,C+5\,a^2\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,i\,a^2\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Cos}[c]}{b^5\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\right.$$

$$\left.\frac{4\,a^2\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Sin}[c]}{b^5\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)+$$

$$\frac{1}{24\,b^4\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(36\,a^3\,A\,b^2\,\text{Sin}[c]-18\,a\,A\,b^4\,\text{Sin}[c]-54\,a^4\,b\,B\,\text{Sin}[c]+36\,a^2\,b^3\,B\,\text{Sin}[c]+72\,a^5\,C\,\text{Sin}[c]-42\,a^3\,b^2\,C\,\text{Sin}[c]-\right.$$
$$12\,a\,b^4\,C\,\text{Sin}[c]-42\,a^2\,A\,b^3\,\text{Sin}[d\,x]+24\,A\,b^5\,\text{Sin}[d\,x]+63\,a^3\,b^2\,B\,\text{Sin}[d\,x]-45\,a\,b^4\,B\,\text{Sin}[d\,x]-84\,a^4\,b\,C\,\text{Sin}[d\,x]+$$
$$42\,a^2\,b^3\,C\,\text{Sin}[d\,x]+24\,b^5\,C\,\text{Sin}[d\,x]+30\,a^2\,A\,b^3\,\text{Sin}[2\,c+d\,x]-12\,A\,b^5\,\text{Sin}[2\,c+d\,x]-45\,a^3\,b^2\,B\,\text{Sin}[2\,c+d\,x]+$$
$$27\,a\,b^4\,B\,\text{Sin}[2\,c+d\,x]+60\,a^4\,b\,C\,\text{Sin}[2\,c+d\,x]-42\,a^2\,b^3\,C\,\text{Sin}[2\,c+d\,x]-36\,a^3\,A\,b^2\,\text{Sin}[c+2\,d\,x]+18\,a\,A\,b^4\,\text{Sin}[c+2\,d\,x]+$$
$$54\,a^4\,b\,B\,\text{Sin}[c+2\,d\,x]-42\,a^2\,b^3\,B\,\text{Sin}[c+2\,d\,x]+6\,b^5\,B\,\text{Sin}[c+2\,d\,x]-72\,a^5\,C\,\text{Sin}[c+2\,d\,x]+50\,a^3\,b^2\,C\,\text{Sin}[c+2\,d\,x]+$$
$$4\,a\,b^4\,C\,\text{Sin}[c+2\,d\,x]+12\,a^3\,A\,b^2\,\text{Sin}[3\,c+2\,d\,x]-6\,a\,A\,b^4\,\text{Sin}[3\,c+2\,d\,x]-18\,a^4\,b\,B\,\text{Sin}[3\,c+2\,d\,x]+$$
$$6\,a^2\,b^3\,B\,\text{Sin}[3\,c+2\,d\,x]+6\,b^5\,B\,\text{Sin}[3\,c+2\,d\,x]+24\,a^5\,C\,\text{Sin}[3\,c+2\,d\,x]-6\,a^3\,b^2\,C\,\text{Sin}[3\,c+2\,d\,x]-$$
$$12\,a\,b^4\,C\,\text{Sin}[3\,c+2\,d\,x]-18\,a^2\,A\,b^3\,\text{Sin}[2\,c+3\,d\,x]+12\,A\,b^5\,\text{Sin}[2\,c+3\,d\,x]+27\,a^3\,b^2\,B\,\text{Sin}[2\,c+3\,d\,x]-$$
$$21\,a\,b^4\,B\,\text{Sin}[2\,c+3\,d\,x]-36\,a^4\,b\,C\,\text{Sin}[2\,c+3\,d\,x]+22\,a^2\,b^3\,C\,\text{Sin}[2\,c+3\,d\,x]+8\,b^5\,C\,\text{Sin}[2\,c+3\,d\,x]+$$
$$6\,a^2\,A\,b^3\,\text{Sin}[4\,c+3\,d\,x]-9\,a^3\,b^2\,B\,\text{Sin}[4\,c+3\,d\,x]+3\,a\,b^4\,B\,\text{Sin}[4\,c+3\,d\,x]+12\,a^4\,b\,C\,\text{Sin}[4\,c+3\,d\,x]-$$
$$6\,a^2\,b^3\,C\,\text{Sin}[4\,c+3\,d\,x]-12\,a^3\,A\,b^2\,\text{Sin}[3\,c+4\,d\,x]+6\,a\,A\,b^4\,\text{Sin}[3\,c+4\,d\,x]+18\,a^4\,b\,B\,\text{Sin}[3\,c+4\,d\,x]-$$
$$\left.12\,a^2\,b^3\,B\,\text{Sin}[3\,c+4\,d\,x]-24\,a^5\,C\,\text{Sin}[3\,c+4\,d\,x]+14\,a^3\,b^2\,C\,\text{Sin}[3\,c+4\,d\,x]+4\,a\,b^4\,C\,\text{Sin}[3\,c+4\,d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 7,\ 0\right\}$$

$$\frac{\left(2\,A\,b^2-4\,a\,b\,B+6\,a^2\,C+b^2\,C\right)\text{ArcTanh}[\text{Sin}[c+d\,x]]}{2\,b^4\,d}+$$

$$\frac{2\,a\left(a^2\,A\,b^2-2\,A\,b^4-2\,a^3\,b\,B+3\,a\,b^3\,B+3\,a^4\,C-4\,a^2\,b^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\left(a^2-b^2\right)^{3/2}\,d}-$$

$$\frac{\left(a\,A\,b^2-2\,a^2\,b\,B+b^3\,B+3\,a^3\,C-2\,a\,b^2\,C\right)\text{Tan}[c+d\,x]}{b^3\left(a^2-b^2\right)\,d}+$$

$$\frac{\left(2\,A\,b^2-2\,a\,b\,B+3\,a^2\,C-b^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{2\,b^2\left(a^2-b^2\right)\,d}-\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{\left(-2\,A\,b^2+4\,a\,b\,B-6\,a^2\,C-b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\frac{\left(2\,A\,b^2-4\,a\,b\,B+6\,a^2\,C+b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\left(\left(-a^2\,A\,b^2+2\,A\,b^4+2\,a^3\,b\,B-3\,a\,b^3\,B-3\,a^4\,C+4\,a^2\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\frac{4\,i\,a\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Cos}[c]}{b^4\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}+\right.$$

$$\left.\left.\frac{4\,a\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Sin}[c]}{b^4\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\right)\Big/$$

$$\frac{\left(\left(-a^2+b^2\right)(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\right)+1}{4\,b^3\left(-a^2+b^2\right)\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}$$

$$(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-4\,a\,A\,b^3\,\text{Sin}[c]+8\,a^2\,b^2\,B\,\text{Sin}[c]-4\,b^4\,B\,\text{Sin}[c]-12\,a^3\,b\,C\,\text{Sin}[c]+8\,a\,b^3\,C\,\text{Sin}[c]+4\,a^2\,A\,b^2\,\text{Sin}[d\,x]-\right.$$
$$8\,a^3\,b\,B\,\text{Sin}[d\,x]+4\,a\,b^3\,B\,\text{Sin}[d\,x]+12\,a^4\,C\,\text{Sin}[d\,x]-10\,a^2\,b^2\,C\,\text{Sin}[d\,x]+2\,b^4\,C\,\text{Sin}[d\,x]-2\,a^2\,A\,b^2\,\text{Sin}[2\,c+d\,x]+$$
$$4\,a^3\,b\,B\,\text{Sin}[2\,c+d\,x]-2\,a\,b^3\,B\,\text{Sin}[2\,c+d\,x]-6\,a^4\,C\,\text{Sin}[2\,c+d\,x]+2\,a^2\,b^2\,C\,\text{Sin}[2\,c+d\,x]+2\,b^4\,C\,\text{Sin}[2\,c+d\,x]+$$
$$2\,a\,A\,b^3\,\text{Sin}[c+2\,d\,x]-6\,a^2\,b^2\,B\,\text{Sin}[c+2\,d\,x]+4\,b^4\,B\,\text{Sin}[c+2\,d\,x]+9\,a^3\,b\,C\,\text{Sin}[c+2\,d\,x]-7\,a\,b^3\,C\,\text{Sin}[c+2\,d\,x]-$$
$$2\,a\,A\,b^3\,\text{Sin}[3\,c+2\,d\,x]+2\,a^2\,b^2\,B\,\text{Sin}[3\,c+2\,d\,x]-3\,a^3\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+a\,b^3\,C\,\text{Sin}[3\,c+2\,d\,x]+$$
$$\left.2\,a^2\,A\,b^2\,\text{Sin}[2\,c+3\,d\,x]-4\,a^3\,b\,B\,\text{Sin}[2\,c+3\,d\,x]+2\,a\,b^3\,B\,\text{Sin}[2\,c+3\,d\,x]+6\,a^4\,C\,\text{Sin}[2\,c+3\,d\,x]-4\,a^2\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 6,\ 0\right\}$$

$$\frac{(b\,B-2\,a\,C)\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{b^3\,d}+\frac{2\left(A\,b^4+a^3\,b\,B-2\,a\,b^3\,B-2\,a^4\,C+3\,a^2\,b^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3\left(a^2-b^2\right)^{3/2}\,d}+$$

$$\frac{\left(A\,b^2-a\,b\,B+2\,a^2\,C-b^2\,C\right)\text{Tan}[c+d\,x]}{b^2\left(a^2-b^2\right)\,d}-\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$-\frac{2\,(b\,B-2\,a\,C)\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\frac{2\,(b\,B-2\,a\,C)\,(b+a\,\text{Cos}[c+d\,x])^2\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\left(\left(A\,b^4+a^3\,b\,B-2\,a\,b^3\,B-2\,a^4\,C+3\,a^2\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{4\,i\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Cos}[c]}{b^3\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\right.$$

$$\left.\left.\frac{4\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Sin}[c]}{b^3\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\right)\Big/$$

$$\left(\left(-a^2+b^2\right)(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\right)+$$
$$\left(2\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$
$$\left.\left(A\,b^3\,\text{Sin}[c]-a\,b^2\,B\,\text{Sin}[c]+a^2\,b\,C\,\text{Sin}[c]-a\,A\,b^2\,\text{Sin}[d\,x]+a^2\,b\,B\,\text{Sin}[d\,x]-a^3\,C\,\text{Sin}[d\,x]\right)\right)\Big/$$
$$\left(b^2\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\right)+$$

$$\frac{2\,C\,(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}\left[\frac{d\,x}{2}\right]}{b^2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\left(\text{Cos}\left[\frac{c}{2}\right]-\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}+$$

$$\frac{2\,C\,(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sin}\left[\frac{d\,x}{2}\right]}{b^2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^2\left(\text{Cos}\left[\frac{c}{2}\right]+\text{Sin}\left[\frac{c}{2}\right]\right)\left(\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right)}$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 5,\ 0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{b^2\,d}-\frac{2\left(a\,A\,b^2-b^3\,B-a^3\,C+2\,a\,b^2\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^2\left(a^2-b^2\right)^{3/2}\,d}-\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.\right.$$

$$C\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$

$$\frac{2\,\left(b^3\,B+a^3\,C-a\,b^2\,(A+2\,C)\right)\,\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\,\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])}{\left(a^2-b^2\right)^{3/2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}+$$

$$\left.\left.\frac{b\,\left(A\,b^2+a\,(-b\,B+a\,C)\right)\,\mathrm{Sec}[c]\,(b\,\mathrm{Sin}[c]-a\,\mathrm{Sin}[d\,x])}{a^3-a\,b^2}\right)\right)\Big/$$

$$\left(b^2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,3,\,0\right\}$$

$$\frac{A\,x}{a^2}+\frac{2\,\left(2\,a^2\,A\,b-A\,b^3-a^3\,B+a^2\,b\,C\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^2\,\left(a^2-b^2\right)^{3/2}\,d}+\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\,\mathrm{Tan}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\left(2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(A\,x\,(b+a\,\mathrm{Cos}[c+d\,x])-\right.\right.$$

$$\frac{2\,i\,\left(A\,b^3+a^3\,B-a^2\,b\,(2\,A+C)\right)\,\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\,\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])\,(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])}{\left(a^2-b^2\right)^{3/2}\,d\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}+$$

$$\left.\left.\frac{\left(A\,b^2+a\,(-b\,B+a\,C)\right)\,\mathrm{Sec}[c]\,(-b\,\mathrm{Sin}[c]+a\,\mathrm{Sin}[d\,x])}{\left(a^2-b^2\right)\,d}\right)\right)\Big/$$

$$\left(a^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,5,\,0\right\}$$

$$-\frac{(2\,A\,b-a\,B)\,x}{a^3}-\frac{2\,\left(3\,a^2\,A\,b^2-2\,A\,b^4-2\,a^3\,b\,B+a\,b^3\,B+a^4\,C\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3\,\left(a^2-b^2\right)^{3/2}\,d}+$$

$$\frac{\left(a^2\,A-2\,A\,b^2+a\,b\,B-a^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{a^2\,\left(a^2-b^2\right)\,d}+\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\Bigg(2\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]\,(B+A\,\mathrm{Cos}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x])$$

$$\Bigg((-2\,A\,b+a\,B)\,x\,(b+a\,\mathrm{Cos}[c+d\,x])-\Bigg(2\,i\,\left(3\,a^2\,A\,b^2-2\,A\,b^4-2\,a^3\,b\,B+a\,b^3\,B+a^4\,C\right)$$

$$\mathrm{ArcTan}\left[\frac{\mathrm{Sec}\left[\frac{d\,x}{2}\right]\,(i\,\mathrm{Cos}[c]+\mathrm{Sin}[c])\,\left(-b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)}{\sqrt{a^2-b^2}\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}}\right]\,(b+a\,\mathrm{Cos}[c+d\,x])\,(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])\Bigg)\Bigg/$$

$$\left(\left(a^2-b^2\right)^{3/2}\,d\,\sqrt{(\mathrm{Cos}[c]-i\,\mathrm{Sin}[c])^2}\right)+\frac{a\,A\,\mathrm{Cos}[d\,x]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[c]}{d}+$$

$$\frac{a\,A\,\mathrm{Cos}[c]\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sin}[d\,x]}{d}+\frac{b\,\left(A\,b^2+a\,(-b\,B+a\,C)\right)\,\mathrm{Sec}[c]\,(b\,\mathrm{Sin}[c]-a\,\mathrm{Sin}[d\,x])}{\left(a^2-b^2\right)\,d}\Bigg)\Bigg)\Bigg/$$

$$\left(a^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,(c+d\,x)])\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right)$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+d\,x]^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^2},\,x,\,7,\,0\right\}$$

$$-\frac{\left(2\,a^2\,A\,b+8\,A\,b^3-a^3\,B-6\,a\,b^2\,B+4\,a^2\,b\,C\right)\,x}{2\,a^5}-$$

$$\frac{2\,b^2\,\left(5\,a^2\,A\,b^2-4\,A\,b^4-4\,a^3\,b\,B+3\,a\,b^3\,B+3\,a^4\,C-2\,a^2\,b^2\,C\right)\,\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5\,\left(a^2-b^2\right)^{3/2}\,d}+$$

$$\frac{\left(2\,a^4\,A+7\,a^2\,A\,b^2-12\,A\,b^4-6\,a^3\,b\,B+9\,a\,b^3\,B+3\,a^4\,C-6\,a^2\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{3\,a^4\,\left(a^2-b^2\right)\,d}-$$

$$\frac{\left(2\,a^2\,A\,b-4\,A\,b^3-a^3\,B+3\,a\,b^2\,B-2\,a^2\,b\,C\right)\,\mathrm{Cos}[c+d\,x]\,\mathrm{Sin}[c+d\,x]}{2\,a^3\,\left(a^2-b^2\right)\,d}+$$

$$\frac{\left(a^2\,A-4\,A\,b^2+3\,a\,b\,B-3\,a^2\,C\right)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,\left(a^2-b^2\right)\,d}+\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\,\mathrm{Cos}[c+d\,x]^2\,\mathrm{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,(a+b\,\mathrm{Sec}[c+d\,x])}$$

$$\frac{1}{24 a^5 d (A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2(c+dx)])(a+b\operatorname{Sec}[c+dx])^2}$$

$$(b+a\operatorname{Cos}[c+dx])\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\left(\left(96 b^2\left(4 A b^4+4 a^3 b B-3 a b^3 B-3 a^4 C+a^2 b^2(-5A+2C)\right)\right.\right.$$

$$\operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{dx}{2}\right](i\operatorname{Cos}[c]+\operatorname{Sin}[c])\left(-b\operatorname{Sin}\left[\frac{dx}{2}\right]+a\operatorname{Sin}\left[c+\frac{dx}{2}\right]\right)}{\sqrt{a^2-b^2}\sqrt{(\operatorname{Cos}[c]-i\operatorname{Sin}[c])^2}}\right](b+a\operatorname{Cos}[c+dx])(i\operatorname{Cos}[c]+\operatorname{Sin}[c])\Bigg)\Bigg/$$

$$\left(\left(a^2-b^2\right)^{3/2}\sqrt{(\operatorname{Cos}[c]-i\operatorname{Sin}[c])^2}\right)+\frac{1}{a^2-b^2}\operatorname{Sec}[c]\left(24 b\left(-a^2+b^2\right)\left(8 A b^3-a^3 B-6 a b^2 B+2 a^2 b(A+2C)\right)dx\operatorname{Cos}[c]+\right.$$

$$12 a\left(a^2-b^2\right)\left(-8 A b^3+a^3 B+6 a b^2 B-2 a^2 b(A+2C)\right)dx\operatorname{Cos}[dx]-24 a^5 A b\, dx\operatorname{Cos}[2c+dx]-$$
$$72 a^3 A b^3 dx\operatorname{Cos}[2c+dx]+96 a A b^5 dx\operatorname{Cos}[2c+dx]+12 a^6 B\, dx\operatorname{Cos}[2c+dx]+60 a^4 b^2 B\, dx\operatorname{Cos}[2c+dx]-$$
$$72 a^2 b^4 B\, dx\operatorname{Cos}[2c+dx]-48 a^5 b C\, dx\operatorname{Cos}[2c+dx]+48 a^3 b^3 C\, dx\operatorname{Cos}[2c+dx]+48 A b^6\operatorname{Sin}[c]-$$
$$48 a b^5 B\operatorname{Sin}[c]+48 a^2 b^4 C\operatorname{Sin}[c]+12 a^5 A b\operatorname{Sin}[dx]+60 a^3 A b^3\operatorname{Sin}[dx]-120 a A b^5\operatorname{Sin}[dx]+3 a^6 B\operatorname{Sin}[dx]-$$
$$51 a^4 b^2 B\operatorname{Sin}[dx]+96 a^2 b^4 B\operatorname{Sin}[dx]+24 a^5 b C\operatorname{Sin}[dx]-72 a^3 b^3 C\operatorname{Sin}[dx]+12 a^5 A b\operatorname{Sin}[2c+dx]+$$
$$60 a^3 A b^3\operatorname{Sin}[2c+dx]-72 a A b^5\operatorname{Sin}[2c+dx]+3 a^6 B\operatorname{Sin}[2c+dx]-51 a^4 b^2 B\operatorname{Sin}[2c+dx]+$$
$$48 a^2 b^4 B\operatorname{Sin}[2c+dx]+24 a^5 b C\operatorname{Sin}[2c+dx]-24 a^3 b^3 C\operatorname{Sin}[2c+dx]+10 a^6 A\operatorname{Sin}[c+2dx]+$$
$$14 a^4 A b^2\operatorname{Sin}[c+2dx]-24 a^2 A b^4\operatorname{Sin}[c+2dx]-18 a^5 b B\operatorname{Sin}[c+2dx]+18 a^3 b^3 B\operatorname{Sin}[c+2dx]+$$
$$12 a^6 C\operatorname{Sin}[c+2dx]-12 a^4 b^2 C\operatorname{Sin}[c+2dx]+10 a^6 A\operatorname{Sin}[3c+2dx]+14 a^4 A b^2\operatorname{Sin}[3c+2dx]-$$
$$24 a^2 A b^4\operatorname{Sin}[3c+2dx]-18 a^5 b B\operatorname{Sin}[3c+2dx]+18 a^3 b^3 B\operatorname{Sin}[3c+2dx]+12 a^6 C\operatorname{Sin}[3c+2dx]-$$
$$12 a^4 b^2 C\operatorname{Sin}[3c+2dx]-4 a^5 A b\operatorname{Sin}[2c+3dx]+4 a^3 A b^3\operatorname{Sin}[2c+3dx]+3 a^6 B\operatorname{Sin}[2c+3dx]-$$
$$3 a^4 b^2 B\operatorname{Sin}[2c+3dx]-4 a^5 A b\operatorname{Sin}[4c+3dx]+4 a^3 A b^3\operatorname{Sin}[4c+3dx]+3 a^6 B\operatorname{Sin}[4c+3dx]-$$
$$\left.\left.3 a^4 b^2 B\operatorname{Sin}[4c+3dx]+a^6 A\operatorname{Sin}[3c+4dx]-a^4 A b^2\operatorname{Sin}[3c+4dx]+a^6 A\operatorname{Sin}[5c+4dx]-a^4 A b^2\operatorname{Sin}[5c+4dx]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+dx]^4\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{(a+b\operatorname{Sec}[c+dx])^3}, x, 8, 0\right\}$$

$$\frac{\left(2 A b^2-6 a b B+12 a^2 C+b^2 C\right)\operatorname{ArcTanh}[\operatorname{Sin}[c+dx]]}{2 b^5 d}+$$

$$\frac{a\left(2 a^4 A b^2-5 a^2 A b^4+6 A b^6-6 a^5 b B+15 a^3 b^3 B-12 a b^5 B+12 a^6 C-29 a^4 b^2 C+20 a^2 b^4 C\right)\operatorname{ArcTanh}\left[\frac{(-a+b)\operatorname{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{a^2-b^2}}\right]}{b^5\left(a^2-b^2\right)^{5/2} d}-$$

$$\frac{\left(2 a^3 A b^2-5 a A b^4-6 a^4 b B+11 a^2 b^3 B-2 b^5 B+12 a^5 C-21 a^3 b^2 C+6 a b^4 C\right)\operatorname{Tan}[c+dx]}{2 b^4\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(a^2 A b^2-4 A b^4-3 a^3 b B+6 a b^3 B+6 a^4 C-10 a^2 b^2 C+b^4 C\right)\operatorname{Sec}[c+dx]\operatorname{Tan}[c+dx]}{2 b^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\operatorname{Sec}[c+dx]^3\operatorname{Tan}[c+dx]}{2 b\left(a^2-b^2\right) d(a+b\operatorname{Sec}[c+dx])^2}+\frac{\left(3 A b^4+2 a^3 b B-5 a b^3 B-4 a^4 C+7 a^2 b^2 C\right)\operatorname{Sec}[c+dx]^2\operatorname{Tan}[c+dx]}{2 b^2\left(a^2-b^2\right)^2 d(a+b\operatorname{Sec}[c+dx])}$$

$$\left(\left(-2 A b^2+6 a b B-12 a^2 C-b^2 C\right)(b+a \operatorname{Cos}[c+d x])^3 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}[c+d x]\right.$$
$$\left.\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(b^5 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^3\right)+$$
$$\left(\left(2 A b^2-6 a b B+12 a^2 C+b^2 C\right)(b+a \operatorname{Cos}[c+d x])^3 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\operatorname{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right] \operatorname{Sec}[c+d x]\right.$$
$$\left.\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(b^5 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^3\right)+$$
$$\frac{1}{\left(-a^2+b^2\right)^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^3}$$
$$\left(2 a^4 A b^2-5 a^2 A b^4+6 A b^6-6 a^5 b B+15 a^3 b^3 B-12 a b^5 B+12 a^6 C-29 a^4 b^2 C+20 a^2 b^4 C\right)$$
$$(b+a \operatorname{Cos}[c+d x])^3 \operatorname{Sec}[c+d x]\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$
$$\left(\frac{2 i a \operatorname{ArcTan}\left[\operatorname{Sec}\left[\frac{d x}{2}\right]\left(\frac{\operatorname{Cos}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}-\frac{i \operatorname{Sin}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)\left(-i b \operatorname{Sin}\left[\frac{d x}{2}\right]+i a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \operatorname{Cos}[c]}{b^5 \sqrt{a^2-b^2}\, d \sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}+\right.$$
$$\left.\frac{2 a \operatorname{ArcTan}\left[\operatorname{Sec}\left[\frac{d x}{2}\right]\left(\frac{\operatorname{Cos}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}-\frac{i \operatorname{Sin}[c]}{\sqrt{a^2-b^2}\sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)\left(-i b \operatorname{Sin}\left[\frac{d x}{2}\right]+i a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \operatorname{Sin}[c]}{b^5 \sqrt{a^2-b^2}\, d \sqrt{\operatorname{Cos}[2 c]-i \operatorname{Sin}[2 c]}}\right)+$$
$$\frac{1}{8 b^4\left(-a^2+b^2\right)^2 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^3}$$
$$(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$
$$\left(6 a^5 A b^2 \operatorname{Sin}[c]-7 a^3 A b^4 \operatorname{Sin}[c]-20 a A b^6 \operatorname{Sin}[c]-18 a^6 b B \operatorname{Sin}[c]+9 a^4 b^3 B \operatorname{Sin}[c]+38 a^2 b^5 B \operatorname{Sin}[c]-8 b^7 B \operatorname{Sin}[c]+\right.$$
$$36 a^7 C \operatorname{Sin}[c]-15 a^5 b^2 C \operatorname{Sin}[c]-66 a^3 b^4 C \operatorname{Sin}[c]+24 a b^6 C \operatorname{Sin}[c]-15 a^4 A b^3 \operatorname{Sin}[d x]+36 a^2 A b^5 \operatorname{Sin}[d x]+$$
$$45 a^5 b^2 B \operatorname{Sin}[d x]-82 a^3 b^4 B \operatorname{Sin}[d x]+16 a b^6 B \operatorname{Sin}[d x]-90 a^6 b C \operatorname{Sin}[d x]+162 a^4 b^3 C \operatorname{Sin}[d x]-55 a^2 b^5 C \operatorname{Sin}[d x]+$$
$$4 b^7 C \operatorname{Sin}[d x]+9 a^4 A b^3 \operatorname{Sin}[2 c+d x]-24 a^2 A b^5 \operatorname{Sin}[2 c+d x]-27 a^5 b^2 B \operatorname{Sin}[2 c+d x]+50 a^3 b^4 B \operatorname{Sin}[2 c+d x]-$$
$$8 a b^6 B \operatorname{Sin}[2 c+d x]+54 a^6 b C \operatorname{Sin}[2 c+d x]-90 a^4 b^3 C \operatorname{Sin}[2 c+d x]+17 a^2 b^5 C \operatorname{Sin}[2 c+d x]+4 b^7 C \operatorname{Sin}[2 c+d x]-$$
$$6 a^5 A b^2 \operatorname{Sin}[c+2 d x]+11 a^3 A b^4 \operatorname{Sin}[c+2 d x]+10 a A b^6 \operatorname{Sin}[c+2 d x]+18 a^6 b B \operatorname{Sin}[c+2 d x]-17 a^4 b^3 B \operatorname{Sin}[c+2 d x]-$$
$$24 a^2 b^5 B \operatorname{Sin}[c+2 d x]+8 b^7 B \operatorname{Sin}[c+2 d x]-36 a^7 C \operatorname{Sin}[c+2 d x]+31 a^5 b^2 C \operatorname{Sin}[c+2 d x]+40 a^3 b^4 C \operatorname{Sin}[c+2 d x]-$$
$$20 a b^6 C \operatorname{Sin}[c+2 d x]+2 a^5 A b^2 \operatorname{Sin}[3 c+2 d x]-a^3 A b^4 \operatorname{Sin}[3 c+2 d x]-10 a A b^6 \operatorname{Sin}[3 c+2 d x]-6 a^6 b B \operatorname{Sin}[3 c+2 d x]+$$
$$3 a^4 b^3 B \operatorname{Sin}[3 c+2 d x]+12 a^2 b^5 B \operatorname{Sin}[3 c+2 d x]+12 a^7 C \operatorname{Sin}[3 c+2 d x]-5 a^5 b^2 C \operatorname{Sin}[3 c+2 d x]-$$
$$20 a^3 b^4 C \operatorname{Sin}[3 c+2 d x]+4 a b^6 C \operatorname{Sin}[3 c+2 d x]-7 a^4 A b^3 \operatorname{Sin}[2 c+3 d x]+16 a^2 A b^5 \operatorname{Sin}[2 c+3 d x]+$$
$$21 a^5 b^2 B \operatorname{Sin}[2 c+3 d x]-38 a^3 b^4 B \operatorname{Sin}[2 c+3 d x]+8 a b^6 B \operatorname{Sin}[2 c+3 d x]-42 a^6 b C \operatorname{Sin}[2 c+3 d x]+$$
$$74 a^4 b^3 C \operatorname{Sin}[2 c+3 d x]-23 a^2 b^5 C \operatorname{Sin}[2 c+3 d x]+a^4 A b^3 \operatorname{Sin}[4 c+3 d x]-4 a^2 A b^5 \operatorname{Sin}[4 c+3 d x]-3 a^5 b^2 B$$
$$\operatorname{Sin}[4 c+3 d x]+6 a^3 b^4 B \operatorname{Sin}[4 c+3 d x]+6 a^6 b C \operatorname{Sin}[4 c+3 d x]-10 a^4 b^3 C \operatorname{Sin}[4 c+3 d x]+a^2 b^5 C \operatorname{Sin}[4 c+3 d x]-$$
$$2 a^5 A b^2 \operatorname{Sin}[3 c+4 d x]+5 a^3 A b^4 \operatorname{Sin}[3 c+4 d x]+6 a^6 b B \operatorname{Sin}[3 c+4 d x]-11 a^4 b^3 B \operatorname{Sin}[3 c+4 d x]+$$
$$\left.2 a^2 b^5 B \operatorname{Sin}[3 c+4 d x]-12 a^7 C \operatorname{Sin}[3 c+4 d x]+21 a^5 b^2 C \operatorname{Sin}[3 c+4 d x]-6 a^3 b^4 C \operatorname{Sin}[3 c+4 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]^3\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^3}, x, 7, 0\right\}$$

$$\frac{(b B-3 a C)\,\text{ArcTanh}[\text{Sin}[c+d x]]}{b^4 d}-$$

$$\frac{\left(a^2 A b^4+2 A b^6-2 a^5 b B+5 a^3 b^3 B-6 a b^5 B+6 a^6 C-15 a^4 b^2 C+12 a^2 b^4 C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\left(a^2-b^2\right)^{5/2} d}-$$

$$\frac{\left(3 A b^4+2 a^3 b B-5 a b^3 B-6 a^4 C+11 a^2 b^2 C-2 b^4 C\right)\text{Tan}[c+d x]}{2 b^3\left(a^2-b^2\right)^2 d}-\frac{\left(A b^2-a b B+a^2 C\right)\text{Sec}[c+d x]^2\,\text{Tan}[c+d x]}{2 b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])^2}+$$

$$\frac{\left(a^2 A b^2+2 A b^4+a^3 b B-4 a b^3 B-3 a^4 C+6 a^2 b^2 C\right)\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{2 b^2\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d x])}$$

$$-\frac{2\,(b B-3 a C)\,(b+a\,\text{Cos}[c+d x])^3\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right]\text{Sec}[c+d x]\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{b^4 d\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,(a+b\,\text{Sec}[c+d x])^3}+$$

$$\frac{2\,(b B-3 a C)\,(b+a\,\text{Cos}[c+d x])^3\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d x}{2}\right]\right]\text{Sec}[c+d x]\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{b^4 d\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,(a+b\,\text{Sec}[c+d x])^3}+$$

$$\frac{1}{\left(-a^2+b^2\right)^2(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,(a+b\,\text{Sec}[c+d x])^3}$$
$$\left(a^2 A b^4+2 A b^6-2 a^5 b B+5 a^3 b^3 B-6 a b^5 B+6 a^6 C-15 a^4 b^2 C+12 a^2 b^4 C\right)$$
$$(b+a\,\text{Cos}[c+d x])^3\,\text{Sec}[c+d x]\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)$$
$$\left(-\frac{2\,i\,\text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d x}{2}\right]\right)\right]\text{Cos}[c]}{b^4\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}-\right.$$
$$\left.\frac{2\,\text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d x}{2}\right]\right)\right]\text{Sin}[c]}{b^4\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2 c]-i\,\text{Sin}[2 c]}}\right)+$$

$$\frac{1}{4 b^3\left(-a^2+b^2\right)^2 d\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,(a+b\,\text{Sec}[c+d x])^3}$$
$$(b+a\,\text{Cos}[c+d x])\,\text{Sec}[c]\,\text{Sec}[c+d x]^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)$$
$$\left(12 a A b^5\,\text{Sin}[c]+8 a^4 b^2 B\,\text{Sin}[c]-20 a^2 b^4 B\,\text{Sin}[c]-24 a^5 b C\,\text{Sin}[c]+44 a^3 b^3 C\,\text{Sin}[c]-8 a b^5 C\,\text{Sin}[c]-6 a^2 A b^4\,\text{Sin}[d x]-\right.$$
$$6 A b^6\,\text{Sin}[d x]-4 a^5 b B\,\text{Sin}[d x]+6 a^3 b^3 B\,\text{Sin}[d x]+10 a b^5 B\,\text{Sin}[d x]+12 a^6 C\,\text{Sin}[d x]-6 a^4 b^2 C\,\text{Sin}[d x]-$$
$$26 a^2 b^4 C\,\text{Sin}[d x]+8 b^6 C\,\text{Sin}[d x]+3 a^2 A b^4\,\text{Sin}[2 c+d x]+6 A b^6\,\text{Sin}[2 c+d x]+2 a^5 b B\,\text{Sin}[2 c+d x]-$$
$$a^3 b^3 B\,\text{Sin}[2 c+d x]-10 a b^5 B\,\text{Sin}[2 c+d x]-6 a^6 C\,\text{Sin}[2 c+d x]+3 a^4 b^2 C\,\text{Sin}[2 c+d x]+12 a^2 b^4 C\,\text{Sin}[2 c+d x]+$$
$$a^3 A b^3\,\text{Sin}[c+2 d x]-10 a A b^5\,\text{Sin}[c+2 d x]-7 a^4 b^2 B\,\text{Sin}[c+2 d x]+16 a^2 b^4 B\,\text{Sin}[c+2 d x]+21 a^5 b C\,\text{Sin}[c+2 d x]-$$
$$38 a^3 b^3 C\,\text{Sin}[c+2 d x]+8 a b^5 C\,\text{Sin}[c+2 d x]+a^3 A b^3\,\text{Sin}[3 c+2 d x]+2 a A b^5\,\text{Sin}[3 c+2 d x]+a^4 b^2 B\,\text{Sin}[3 c+2 d x]-$$
$$4 a^2 b^4 B\,\text{Sin}[3 c+2 d x]-3 a^5 b C\,\text{Sin}[3 c+2 d x]+6 a^3 b^3 C\,\text{Sin}[3 c+2 d x]-3 a^2 A b^4\,\text{Sin}[2 c+3 d x]-2 a^5 b B$$
$$\left.\text{Sin}[2 c+3 d x]+5 a^3 b^3 B\,\text{Sin}[2 c+3 d x]+6 a^6 C\,\text{Sin}[2 c+3 d x]-11 a^4 b^2 C\,\text{Sin}[2 c+3 d x]+2 a^2 b^4 C\,\text{Sin}[2 c+3 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d x]^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^3},\ x,\ 6,\ 0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d x]]}{b^3 d}+\frac{\left(3 a A b^4-a^2 b^3 B-2 b^5 B+2 a^5 C-5 a^3 b^2 C+6 a b^4 C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^3\left(a^2-b^2\right)^{5/2} d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\text{Sec}[c+d x]\,\text{Tan}[c+d x]}{2 b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])^2}+\frac{\left(2 a^2 A b^2+A b^4-3 a b^3 B-2 a^4 C+5 a^2 b^2 C\right)\text{Tan}[c+d x]}{2 b^2\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d x])}$$

$$\frac{1}{2 b^3 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])^3} (b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x]$$
$$\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-4 C (b+a \operatorname{Cos}[c+d x])^2 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]-\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+\right.$$
$$4 C (b+a \operatorname{Cos}[c+d x])^2 \operatorname{Log}\left[\operatorname{Cos}\left[\frac{1}{2} (c+d x)\right]+\operatorname{Sin}\left[\frac{1}{2} (c+d x)\right]\right]+$$
$$\left(4 \left(-a^2 b^3 B-2 b^5 B+2 a^5 C-5 a^3 b^2 C+3 a b^4 (A+2 C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right]\right.$$
$$\left.(b+a \operatorname{Cos}[c+d x])^2 (i \operatorname{Cos}[c]+\operatorname{Sin}[c])\right) \Big/ \left(\left(a^2-b^2\right)^{5/2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}\right)+$$
$$\frac{1}{a \left(a^2-b^2\right)^2} b \operatorname{Sec}[c] \left(\left(a^2+2 b^2\right) \left(-A b^4+3 a b^3 B+2 a^4 C-a^2 b^2 (2 A+5 C)\right) \operatorname{Sin}[c]+\right.$$
$$a \left(b \left(4 A b^4+a^3 b B-10 a b^3 B-7 a^4 C+a^2 b^2 (5 A+16 C)\right) \operatorname{Sin}[d x]+\right.$$
$$\left.\left.a \left(b \left(a^2 b B+2 b^3 B+a^3 C-a b^2 (3 A+4 C)\right) \operatorname{Sin}[2 c+d x]+\left(A b^4-3 a b^3 B-2 a^4 C+a^2 b^2 (2 A+5 C)\right) \operatorname{Sin}[c+2 d x]\right)\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^3}, x, 5, 0\right\}$$
$$-\frac{\left(2 a^2 A+A b^2-3 a b B+a^2 C+2 b^2 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\left(a^2-b^2\right)^{5/2} d}-$$
$$\frac{\left(A b^2-a b B+a^2 C\right) \operatorname{Tan}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \operatorname{Sec}[c+d x])^2}-\frac{\left(3 a A b^2-a^2 b B-2 b^3 B-a^3 C+4 a b^2 C\right) \operatorname{Tan}[c+d x]}{2 b \left(a^2-b^2\right)^2 d (a+b \operatorname{Sec}[c+d x])}$$
$$\frac{1}{2 \left(a^2-b^2\right)^2 d (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 (c+d x)]) (a+b \operatorname{Sec}[c+d x])^3}$$
$$(b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$
$$\left(-\left(4 i \left(-3 a b B+a^2 (2 A+C)+b^2 (A+2 C)\right) \operatorname{ArcTan}\left[\frac{\operatorname{Sec}\left[\frac{d x}{2}\right] (i \operatorname{Cos}[c]+\operatorname{Sin}[c]) \left(-b \operatorname{Sin}\left[\frac{d x}{2}\right]+a \operatorname{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}}\right]\right.\right.$$
$$\left.(b+a \operatorname{Cos}[c+d x])^2 (\operatorname{Cos}[c]-i \operatorname{Sin}[c])\right) \Big/ \left(\sqrt{a^2-b^2} \sqrt{(\operatorname{Cos}[c]-i \operatorname{Sin}[c])^2}\right)+\frac{1}{a^2} \operatorname{Sec}[c] \left(-\left(a^2+2 b^2\right)\right.$$
$$\left(A b^3+2 a^3 B+a b^2 B-a^2 b (4 A+3 C)\right) \operatorname{Sin}[c]+a \left(\left(2 A b^4+5 a^3 b B+4 a b^3 B+a^4 C-a^2 b^2 (11 A+10 C)\right) \operatorname{Sin}[d x]+\right.$$
$$\left.\left.\left(-2 A b^4-3 a^3 b B+a^4 C+a^2 b^2 (5 A+2 C)\right) \operatorname{Sin}[2 c+d x]+a \left(A b^3+2 a^3 B+a b^2 B-a^2 b (4 A+3 C)\right) \operatorname{Sin}[c+2 d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{(a+b \operatorname{Sec}[c+d x])^3}, x, 4, 0\right\}$$

$$\frac{A x}{a^3}+\frac{\left(6 a^4 A b-5 a^2 A b^3+2 A b^5-2 a^5 B-a^3 b^2 B+3 a^4 b C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3 \left(a^2-b^2\right)^{5/2} d}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Tan}[c+d x]}{2 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(5 a^2 A b^2-2 A b^4-3 a^3 b B+a^4 C+2 a^2 b^2 C\right) \text{Tan}[c+d x]}{2 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{2 a^3 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 (c+d x)]) (a+b \text{Sec}[c+d x])^3}$$

$$(b+a \text{Cos}[c+d x]) \text{Sec}[c+d x] \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(-\left(4 i \left(5 a^2 A b^3-2 A b^5+2 a^5 B+a^3 b^2 B-3 a^4 b (2 A+C)\right) \text{ArcTan}\left[\frac{\text{Sec}\left[\frac{d x}{2}\right] (i \text{Cos}[c]+\text{Sin}[c]) \left(-b \text{Sin}\left[\frac{d x}{2}\right]+a \text{Sin}\left[c+\frac{d x}{2}\right]\right)}{\sqrt{a^2-b^2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}}\right]\right.\right.$$

$$\left.(b+a \text{Cos}[c+d x])^2 (\text{Cos}[c]-i \text{Sin}[c])\right) \Big/ \left(\left(a^2-b^2\right)^{5/2} \sqrt{(\text{Cos}[c]-i \text{Sin}[c])^2}\right)+$$

$$\frac{1}{\left(a^2-b^2\right)^2} \text{Sec}[c] \left(2 A \left(a^2-b^2\right)^2 \left(a^2+2 b^2\right) d x \text{Cos}[c]+4 a A b \left(a^2-b^2\right)^2 d x \text{Cos}[d x]+4 a^5 A b d x \text{Cos}[2 c+d x]-\right.$$

$$8 a^3 A b^3 d x \text{Cos}[2 c+d x]+4 a A b^5 d x \text{Cos}[2 c+d x]+a^6 A d x \text{Cos}[c+2 d x]-2 a^4 A b^2 d x \text{Cos}[c+2 d x]+$$
$$a^2 A b^4 d x \text{Cos}[c+2 d x]+a^6 A d x \text{Cos}[3 c+2 d x]-2 a^4 A b^2 d x \text{Cos}[3 c+2 d x]+a^2 A b^4 d x \text{Cos}[3 c+2 d x]-$$
$$6 a^4 A b^2 \text{Sin}[c]-9 a^2 A b^4 \text{Sin}[c]+6 A b^6 \text{Sin}[c]+4 a^5 b B \text{Sin}[c]+7 a^3 b^3 B \text{Sin}[c]-2 a b^5 B \text{Sin}[c]-$$
$$2 a^6 C \text{Sin}[c]-5 a^4 b^2 C \text{Sin}[c]-2 a^2 b^4 C \text{Sin}[c]+17 a^3 A b^3 \text{Sin}[d x]-8 a A b^5 \text{Sin}[d x]-11 a^4 b^2 B \text{Sin}[d x]+$$
$$2 a^2 b^4 B \text{Sin}[d x]+5 a^5 b C \text{Sin}[d x]+4 a^3 b^3 C \text{Sin}[d x]-7 a^3 A b^3 \text{Sin}[2 c+d x]+4 a A b^5 \text{Sin}[2 c+d x]+$$
$$5 a^4 b^2 B \text{Sin}[2 c+d x]-2 a^2 b^4 B \text{Sin}[2 c+d x]-3 a^5 b C \text{Sin}[2 c+d x]+6 a^4 A b^2 \text{Sin}[c+2 d x]-$$
$$\left.\left.3 a^2 A b^4 \text{Sin}[c+2 d x]-4 a^5 b B \text{Sin}[c+2 d x]+a^3 b^3 B \text{Sin}[c+2 d x]+2 a^6 C \text{Sin}[c+2 d x]+a^4 b^2 C \text{Sin}[c+2 d x]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x] \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3}, x, 6, 0\right\}$$

$$-\frac{(3 A b-a B) x}{a^4}-\frac{\left(12 a^4 A b^2-15 a^2 A b^4+6 A b^6-6 a^5 b B+5 a^3 b^3 B-2 a b^5 B+2 a^6 C+a^4 b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4 \left(a^2-b^2\right)^{5/2} d}+$$

$$\frac{\left(2 a^4 A-11 a^2 A b^2+6 A b^4+5 a^3 b B-2 a b^3 B-3 a^4 C\right) \text{Sin}[c+d x]}{2 a^3 \left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(6 a^2 A b^2-3 A b^4-4 a^3 b B+a b^3 B+2 a^4 C+a^2 b^2 C\right) \text{Sin}[c+d x]}{2 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{\left(-a^2+b^2\right)^2 (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^3}$$

$$\left(12a^4Ab^2-15a^2Ab^4+6Ab^6-6a^5bB+5a^3b^3B-2ab^5B+2a^6C+a^4b^2C\right)$$

$$(b+a\,\mathrm{Cos}[c+dx])^3\,\mathrm{Sec}[c+dx]^2\,(B+A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$

$$\left(-\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Cos}[c]}{a^4\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\right.$$

$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Sin}[c]}{a^4\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)+$$

$$\frac{1}{4a^4\left(a^2-b^2\right)^2 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^3}$$

$$(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(B+A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$

$$\begin{aligned}&\big(-12a^6Abdx\,\mathrm{Cos}[c]+36a^2Ab^5dx\,\mathrm{Cos}[c]-24Ab^7dx\,\mathrm{Cos}[c]+4a^7Bdx\,\mathrm{Cos}[c]-12a^3b^4Bdx\,\mathrm{Cos}[c]+\\&8ab^6Bdx\,\mathrm{Cos}[c]-24a^5Ab^2dx\,\mathrm{Cos}[dx]+48a^3Ab^4dx\,\mathrm{Cos}[dx]-24aAb^6dx\,\mathrm{Cos}[dx]+8a^6bBdx\,\mathrm{Cos}[dx]-\\&16a^4b^3Bdx\,\mathrm{Cos}[dx]+8a^2b^5Bdx\,\mathrm{Cos}[dx]-24a^5Ab^2dx\,\mathrm{Cos}[2c+dx]+48a^3Ab^4dx\,\mathrm{Cos}[2c+dx]-\\&24aAb^6dx\,\mathrm{Cos}[2c+dx]+8a^6bBdx\,\mathrm{Cos}[2c+dx]-16a^4b^3Bdx\,\mathrm{Cos}[2c+dx]+8a^2b^5Bdx\,\mathrm{Cos}[2c+dx]-\\&6a^6Abdx\,\mathrm{Cos}[c+2dx]+12a^4Ab^3dx\,\mathrm{Cos}[c+2dx]-6a^2Ab^5dx\,\mathrm{Cos}[c+2dx]+2a^7Bdx\,\mathrm{Cos}[c+2dx]-\\&4a^5b^2Bdx\,\mathrm{Cos}[c+2dx]+2a^3b^4Bdx\,\mathrm{Cos}[c+2dx]-6a^6Abdx\,\mathrm{Cos}[3c+2dx]+12a^4Ab^3dx\,\mathrm{Cos}[3c+2dx]-\\&6a^2Ab^5dx\,\mathrm{Cos}[3c+2dx]+2a^7Bdx\,\mathrm{Cos}[3c+2dx]-4a^5b^2Bdx\,\mathrm{Cos}[3c+2dx]+2a^3b^4Bdx\,\mathrm{Cos}[3c+2dx]+\\&16a^4Ab^3\mathrm{Sin}[c]+22a^2Ab^5\mathrm{Sin}[c]-20Ab^7\mathrm{Sin}[c]-12a^5b^2B\,\mathrm{Sin}[c]-18a^3b^4B\,\mathrm{Sin}[c]+12ab^6B\,\mathrm{Sin}[c]+\\&8a^6bC\,\mathrm{Sin}[c]+14a^4b^3C\,\mathrm{Sin}[c]-4a^2b^5C\,\mathrm{Sin}[c]+a^7A\,\mathrm{Sin}[dx]+2a^5Ab^2\mathrm{Sin}[dx]-53a^3Ab^4\mathrm{Sin}[dx]+\\&32aAb^6\mathrm{Sin}[dx]+34a^4b^3B\,\mathrm{Sin}[dx]-16a^2b^5B\,\mathrm{Sin}[dx]-22a^5b^2C\,\mathrm{Sin}[dx]+4a^3b^4C\,\mathrm{Sin}[dx]+\\&a^7A\,\mathrm{Sin}[2c+dx]+2a^5Ab^2\mathrm{Sin}[2c+dx]+11a^3Ab^4\mathrm{Sin}[2c+dx]-8aAb^6\mathrm{Sin}[2c+dx]-14a^4b^3B\,\mathrm{Sin}[2c+dx]+\\&8a^2b^5B\,\mathrm{Sin}[2c+dx]+10a^5b^2C\,\mathrm{Sin}[2c+dx]-4a^3b^4C\,\mathrm{Sin}[2c+dx]+4a^6Ab\,\mathrm{Sin}[c+2dx]-24a^4Ab^3\mathrm{Sin}[c+2dx]+\\&14a^2Ab^5\mathrm{Sin}[c+2dx]+12a^5b^2B\,\mathrm{Sin}[c+2dx]-6a^3b^4B\,\mathrm{Sin}[c+2dx]-8a^6bC\,\mathrm{Sin}[c+2dx]+2a^4b^3C\,\mathrm{Sin}[c+2dx]+\\&4a^6Ab\,\mathrm{Sin}[3c+2dx]-8a^4Ab^3\mathrm{Sin}[3c+2dx]+4a^2Ab^5\mathrm{Sin}[3c+2dx]+a^7A\,\mathrm{Sin}[2c+3dx]-\\&2a^5Ab^2\mathrm{Sin}[2c+3dx]+a^3Ab^4\mathrm{Sin}[2c+3dx]+a^7A\,\mathrm{Sin}[4c+3dx]-2a^5Ab^2\mathrm{Sin}[4c+3dx]+a^3Ab^4\mathrm{Sin}[4c+3dx]\big)\end{aligned}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^3},\ x,\ 7,\ 0\right\}$$

$$\frac{\left(a^2A+12Ab^2-6abB+2a^2C\right)x}{2a^5}+$$

$$\frac{b\left(20a^4Ab^2-29a^2Ab^4+12Ab^6-12a^5bB+15a^3b^3B-6ab^5B+6a^6C-5a^4b^2C+2a^2b^4C\right)\mathrm{ArcTanh}\left[\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+dx)\right]}{\sqrt{a^2-b^2}}\right]}{a^5\left(a^2-b^2\right)^{5/2}d}-$$

$$\frac{\left(6a^4Ab-21a^2Ab^3+12Ab^5-2a^5B+11a^3b^2B-6ab^4B-5a^4bC+2a^2b^3C\right)\mathrm{Sin}[c+dx]}{2a^4\left(a^2-b^2\right)^2d}+$$

$$\frac{\left(a^4A-10a^2Ab^2+6Ab^4+6a^3bB-3ab^3B-4a^4C+a^2b^2C\right)\mathrm{Cos}[c+dx]\,\mathrm{Sin}[c+dx]}{2a^3\left(a^2-b^2\right)^2d}+$$

$$\frac{\left(Ab^2-abB+a^2C\right)\mathrm{Cos}[c+dx]\,\mathrm{Sin}[c+dx]}{2a\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+dx])^2}+\frac{\left(7a^2Ab^2-4Ab^4-5a^3bB+2ab^3B+3a^4C\right)\mathrm{Cos}[c+dx]\,\mathrm{Sin}[c+dx]}{2a^2\left(a^2-b^2\right)^2d\,(a+b\,\mathrm{Sec}[c+dx])}$$

$$\frac{1}{16 a^5 d (a+b \operatorname{Sec}[c+d x])^3} (b+a \operatorname{Cos}[c+d x]) \operatorname{Sec}[c+d x]^3$$

$$\left(\frac{1}{\left(a^2-b^2\right)^{5/2}} 16 b \left(12 A b^6-12 a^5 b B+15 a^3 b^3 B-6 a b^5 B+5 a^4 b^2 (4 A-C)+6 a^6 C+a^2 b^4 (-29 A+2 C)\right)\right.$$

$$\operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right] (b+a \operatorname{Cos}[c+d x])^2+\frac{1}{\left(a^2-b^2\right)^2}$$

$$\left(4 a^8 A c+48 a^6 A b^2 c-12 a^4 A b^4 c-136 a^2 A b^6 c+96 A b^8 c-24 a^7 b B c+72 a^3 b^5 B c-48 a b^7 B c+8 a^8 c C-24 a^4 b^4 c C+\right.$$

$$16 a^2 b^6 c C+4 a^8 A d x+48 a^6 A b^2 d x-12 a^4 A b^4 d x-136 a^2 A b^6 d x+96 A b^8 d x-24 a^7 b B d x+72 a^3 b^5 B d x-48 a b^7 B d x+$$

$$8 a^8 C d x-24 a^4 b^4 C d x+16 a^2 b^6 C d x+16 a b \left(a^2-b^2\right)^2 \left(12 A b^2-6 a b B+a^2 (A+2 C)\right) (c+d x) \operatorname{Cos}[c+d x]+$$

$$4 \left(a^3-a b^2\right)^2 \left(12 A b^2-6 a b B+a^2 (A+2 C)\right) (c+d x) \operatorname{Cos}[2 (c+d x)]-8 a^7 A b \operatorname{Sin}[c+d x]-32 a^5 A b^3 \operatorname{Sin}[c+d x]+$$

$$160 a^3 A b^5 \operatorname{Sin}[c+d x]-96 a A b^7 \operatorname{Sin}[c+d x]+4 a^8 B \operatorname{Sin}[c+d x]+8 a^6 b^2 B \operatorname{Sin}[c+d x]-84 a^4 b^4 B \operatorname{Sin}[c+d x]+$$

$$48 a^2 b^6 B \operatorname{Sin}[c+d x]+40 a^5 b^3 C \operatorname{Sin}[c+d x]-16 a^3 b^5 C \operatorname{Sin}[c+d x]+2 a^8 A \operatorname{Sin}[2 (c+d x)]-48 a^6 A b^2 \operatorname{Sin}[2 (c+d x)]+$$

$$130 a^4 A b^4 \operatorname{Sin}[2 (c+d x)]-72 a^2 A b^6 \operatorname{Sin}[2 (c+d x)]+16 a^7 b B \operatorname{Sin}[2 (c+d x)]-64 a^5 b^3 B \operatorname{Sin}[2 (c+d x)]+$$

$$36 a^3 b^5 B \operatorname{Sin}[2 (c+d x)]+24 a^6 b^2 C \operatorname{Sin}[2 (c+d x)]-12 a^4 b^4 C \operatorname{Sin}[2 (c+d x)]-8 a^7 A b \operatorname{Sin}[3 (c+d x)]+$$

$$16 a^5 A b^3 \operatorname{Sin}[3 (c+d x)]-8 a^3 A b^5 \operatorname{Sin}[3 (c+d x)]+4 a^8 B \operatorname{Sin}[3 (c+d x)]-8 a^6 b^2 B \operatorname{Sin}[3 (c+d x)]+$$

$$\left.\left.4 a^4 b^4 B \operatorname{Sin}[3 (c+d x)]+a^8 A \operatorname{Sin}[4 (c+d x)]-2 a^6 A b^2 \operatorname{Sin}[4 (c+d x)]+a^4 A b^4 \operatorname{Sin}[4 (c+d x)]\right)\right)$$

Incorrect antiderivative:

$$\left\{\frac{\operatorname{Sec}[c+d x]^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^4}, x, 8, 0\right\}$$

$$\frac{(b B-4 a C) \operatorname{ArcTanh}[\operatorname{Sin}[c+d x]]}{b^5 d}+$$

$$\frac{\left(3 a^2 A b^6+2 A b^8+2 a^7 b B-7 a^5 b^3 B+8 a^3 b^5 B-8 a b^7 B-8 a^8 C+28 a^6 b^2 C-35 a^4 b^4 C+20 a^2 b^6 C\right) \operatorname{ArcTanh}\left[\frac{(-a+b) \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{b^5 \left(a^2-b^2\right)^{7/2} d}+$$

$$\frac{\left(4 a^2 A b^4+11 A b^6-6 a^5 b B+17 a^3 b^3 B-26 a b^5 B+24 a^6 C-68 a^4 b^2 C+65 a^2 b^4 C-6 b^6 C\right) \operatorname{Tan}[c+d x]}{6 b^4 \left(a^2-b^2\right)^3 d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \operatorname{Sec}[c+d x]^3 \operatorname{Tan}[c+d x]}{3 b \left(a^2-b^2\right) d (a+b \operatorname{Sec}[c+d x])^3}+\frac{\left(2 a^2 A b^2+3 A b^4+a^3 b B-6 a b^3 B-4 a^4 C+9 a^2 b^2 C\right) \operatorname{Sec}[c+d x]^2 \operatorname{Tan}[c+d x]}{6 b^2 \left(a^2-b^2\right)^2 d (a+b \operatorname{Sec}[c+d x])^2}-$$

$$\frac{\left(3 a^2 A b^4+2 A b^6-a^5 b B+2 a^3 b^3 B-6 a b^5 B+4 a^6 C-11 a^4 b^2 C+12 a^2 b^4 C\right) \operatorname{Sec}[c+d x] \operatorname{Tan}[c+d x]}{2 b^3 \left(a^2-b^2\right)^3 d (a+b \operatorname{Sec}[c+d x])}$$

$$-\frac{2\,(b\,B-4\,a\,C)\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}+$$

$$\frac{2\,(b\,B-4\,a\,C)\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\mathrm{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{b^5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}+$$

$$\frac{1}{\left(-a^2+b^2\right)^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}$$

$$\left(3\,a^2\,A\,b^6+2\,A\,b^8+2\,a^7\,b\,B-7\,a^5\,b^3\,B+8\,a^3\,b^5\,B-8\,a\,b^7\,B-8\,a^8\,C+28\,a^6\,b^2\,C-35\,a^4\,b^4\,C+20\,a^2\,b^6\,C\right)$$

$$(b+a\,\mathrm{Cos}[c+d\,x])^4\,\mathrm{Sec}[c+d\,x]^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Cos}[c]}{b^5\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\right.$$

$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\mathrm{Sin}[c]}{b^5\,\sqrt{a^2-b^2}\,d\,\sqrt{\mathrm{Cos}[2\,c]-i\,\mathrm{Sin}[2\,c]}}\right)+$$

$$\frac{1}{24\,b^4\,\left(-a^2+b^2\right)^3\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^4}$$

$$(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\begin{aligned}&\big(12\,a^5\,A\,b^4\,\mathrm{Sin}[c]+81\,a^3\,A\,b^6\,\mathrm{Sin}[c]+132\,a\,A\,b^8\,\mathrm{Sin}[c]-18\,a^8\,b\,B\,\mathrm{Sin}[c]-21\,a^6\,b^3\,B\,\mathrm{Sin}[c]+126\,a^4\,b^5\,B\,\mathrm{Sin}[c]-\\&312\,a^2\,b^7\,B\,\mathrm{Sin}[c]+72\,a^9\,C\,\mathrm{Sin}[c]+84\,a^7\,b^2\,C\,\mathrm{Sin}[c]-621\,a^5\,b^4\,C\,\mathrm{Sin}[c]+762\,a^3\,b^6\,C\,\mathrm{Sin}[c]-72\,a\,b^8\,C\,\mathrm{Sin}[c]-\\&39\,a^4\,A\,b^5\,\mathrm{Sin}[d\,x]-142\,a^2\,A\,b^7\,\mathrm{Sin}[d\,x]-44\,A\,b^9\,\mathrm{Sin}[d\,x]+69\,a^7\,b^2\,B\,\mathrm{Sin}[d\,x]-174\,a^5\,b^4\,B\,\mathrm{Sin}[d\,x]+\\&226\,a^3\,b^6\,B\,\mathrm{Sin}[d\,x]+104\,a\,b^8\,B\,\mathrm{Sin}[d\,x]-276\,a^8\,b\,C\,\mathrm{Sin}[d\,x]+663\,a^6\,b^3\,C\,\mathrm{Sin}[d\,x]-400\,a^4\,b^5\,C\,\mathrm{Sin}[d\,x]-\\&260\,a^2\,b^7\,C\,\mathrm{Sin}[d\,x]+48\,b^9\,C\,\mathrm{Sin}[d\,x]+33\,a^4\,A\,b^5\,\mathrm{Sin}[2\,c+d\,x]+88\,a^2\,A\,b^7\,\mathrm{Sin}[2\,c+d\,x]+44\,A\,b^9\,\mathrm{Sin}[2\,c+d\,x]-\\&39\,a^7\,b^2\,B\,\mathrm{Sin}[2\,c+d\,x]+84\,a^5\,b^4\,B\,\mathrm{Sin}[2\,c+d\,x]-106\,a^3\,b^6\,B\,\mathrm{Sin}[2\,c+d\,x]-104\,a\,b^8\,B\,\mathrm{Sin}[2\,c+d\,x]+\\&156\,a^8\,b\,C\,\mathrm{Sin}[2\,c+d\,x]-369\,a^6\,b^3\,C\,\mathrm{Sin}[2\,c+d\,x]+226\,a^4\,b^5\,C\,\mathrm{Sin}[2\,c+d\,x]+152\,a^2\,b^7\,C\,\mathrm{Sin}[2\,c+d\,x]-\\&16\,a^5\,A\,b^4\,\mathrm{Sin}[c+2\,d\,x]-47\,a^3\,A\,b^6\,\mathrm{Sin}[c+2\,d\,x]-102\,a\,A\,b^8\,\mathrm{Sin}[c+2\,d\,x]+18\,a^8\,b\,B\,\mathrm{Sin}[c+2\,d\,x]+\\&7\,a^6\,b^3\,B\,\mathrm{Sin}[c+2\,d\,x]-88\,a^4\,b^5\,B\,\mathrm{Sin}[c+2\,d\,x]+228\,a^2\,b^7\,B\,\mathrm{Sin}[c+2\,d\,x]-72\,a^9\,C\,\mathrm{Sin}[c+2\,d\,x]-28\,a^7\,b^2\,C\,\mathrm{Sin}[c+2\,d\,x]+\\&463\,a^5\,b^4\,C\,\mathrm{Sin}[c+2\,d\,x]-600\,a^3\,b^6\,C\,\mathrm{Sin}[c+2\,d\,x]+72\,a\,b^8\,C\,\mathrm{Sin}[c+2\,d\,x]+45\,a^3\,A\,b^6\,\mathrm{Sin}[3\,c+2\,d\,x]+\\&30\,a\,A\,b^8\,\mathrm{Sin}[3\,c+2\,d\,x]-6\,a^8\,b\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+3\,a^6\,b^3\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+12\,a^4\,b^5\,B\,\mathrm{Sin}[3\,c+2\,d\,x]-\\&84\,a^2\,b^7\,B\,\mathrm{Sin}[3\,c+2\,d\,x]+24\,a^9\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-12\,a^7\,b^2\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-93\,a^5\,b^4\,C\,\mathrm{Sin}[3\,c+2\,d\,x]+\\&156\,a^3\,b^6\,C\,\mathrm{Sin}[3\,c+2\,d\,x]-15\,a^4\,A\,b^5\,\mathrm{Sin}[2\,c+3\,d\,x]-60\,a^2\,A\,b^7\,\mathrm{Sin}[2\,c+3\,d\,x]+33\,a^7\,b^2\,B\,\mathrm{Sin}[2\,c+3\,d\,x]-\\&96\,a^5\,b^4\,B\,\mathrm{Sin}[2\,c+3\,d\,x]+138\,a^3\,b^6\,B\,\mathrm{Sin}[2\,c+3\,d\,x]-132\,a^8\,b\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+375\,a^6\,b^3\,C\,\mathrm{Sin}[2\,c+3\,d\,x]-\\&354\,a^4\,b^5\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+36\,a^2\,b^7\,C\,\mathrm{Sin}[2\,c+3\,d\,x]+9\,a^4\,A\,b^5\,\mathrm{Sin}[4\,c+3\,d\,x]+6\,a^2\,A\,b^7\,\mathrm{Sin}[4\,c+3\,d\,x]-\\&3\,a^7\,b^2\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+6\,a^5\,b^4\,B\,\mathrm{Sin}[4\,c+3\,d\,x]-18\,a^3\,b^6\,B\,\mathrm{Sin}[4\,c+3\,d\,x]+12\,a^8\,b\,C\,\mathrm{Sin}[4\,c+3\,d\,x]-\\&33\,a^6\,b^3\,C\,\mathrm{Sin}[4\,c+3\,d\,x]+36\,a^4\,b^5\,C\,\mathrm{Sin}[4\,c+3\,d\,x]-4\,a^5\,A\,b^4\,\mathrm{Sin}[3\,c+4\,d\,x]-\\&11\,a^3\,A\,b^6\,\mathrm{Sin}[3\,c+4\,d\,x]+6\,a^8\,b\,B\,\mathrm{Sin}[3\,c+4\,d\,x]-17\,a^6\,b^3\,B\,\mathrm{Sin}[3\,c+4\,d\,x]+26\,a^4\,b^5\,B\,\mathrm{Sin}[3\,c+4\,d\,x]-\\&24\,a^9\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+68\,a^7\,b^2\,C\,\mathrm{Sin}[3\,c+4\,d\,x]-65\,a^5\,b^4\,C\,\mathrm{Sin}[3\,c+4\,d\,x]+6\,a^3\,b^6\,C\,\mathrm{Sin}[3\,c+4\,d\,x]\big)\end{aligned}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^4},\ x,\ 7,\ 0\right\}$$

$$\frac{C\,\text{ArcTanh}[\text{Sin}[c+d\,x]]}{b^4\,d}-\frac{\left(a^3\,A\,b^4+4\,a\,A\,b^6-3\,a^2\,b^5\,B-2\,b^7\,B-2\,a^7\,C+7\,a^5\,b^2\,C-8\,a^3\,b^4\,C+8\,a\,b^6\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{b^4\,\left(a^2-b^2\right)^{7/2}\,d}-$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{3\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^3}+\frac{\left(3\,a^2\,A\,b^2+2\,A\,b^4-5\,a\,b^3\,B-3\,a^4\,C+8\,a^2\,b^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{6\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])^2}-$$

$$\frac{\left(13\,a^2\,A\,b^4+2\,A\,b^6-4\,a^3\,b^3\,B-11\,a\,b^5\,B+6\,a^6\,C-17\,a^4\,b^2\,C+26\,a^2\,b^4\,C\right)\text{Tan}[c+d\,x]}{6\,b^3\,\left(a^2-b^2\right)^3\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$-\frac{2\,C\,(b+a\,\text{Cos}[c+d\,x])^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]-\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^4}+$$

$$\frac{2\,C\,(b+a\,\text{Cos}[c+d\,x])^4\,\text{Log}\left[\text{Cos}\left[\frac{c}{2}+\frac{d\,x}{2}\right]+\text{Sin}\left[\frac{c}{2}+\frac{d\,x}{2}\right]\right]\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{b^4\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^4}+$$

$$\frac{1}{\left(-a^2+b^2\right)^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^4}$$

$$\left(-a^3\,A\,b^4-4\,a\,A\,b^6+3\,a^2\,b^5\,B+2\,b^7\,B+2\,a^7\,C-7\,a^5\,b^2\,C+8\,a^3\,b^4\,C-8\,a\,b^6\,C\right)$$

$$(b+a\,\text{Cos}[c+d\,x])^4\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{2\,i\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Cos}[c]}{b^4\,\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\right.$$

$$\left.\frac{2\,\text{ArcTan}\left[\text{Sec}\left[\frac{d\,x}{2}\right]\left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}-\frac{i\,\text{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)\left(-i\,b\,\text{Sin}\left[\frac{d\,x}{2}\right]+i\,a\,\text{Sin}\left[c+\frac{d\,x}{2}\right]\right)\right]\text{Sin}[c]}{b^4\,\sqrt{a^2-b^2}\,d\,\sqrt{\text{Cos}[2\,c]-i\,\text{Sin}[2\,c]}}\right)+$$

$$\Big((b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Big(-78\,a^4\,A\,b^5\,\text{Sin}[c]-64\,a^2\,A\,b^7\,\text{Sin}[c]-8\,A\,b^9\,\text{Sin}[c]+24\,a^5\,b^4\,B\,\text{Sin}[c]+82\,a^3\,b^6\,B\,\text{Sin}[c]+44\,a\,b^8\,B\,\text{Sin}[c]-$$

$$36\,a^8\,b\,C\,\text{Sin}[c]+78\,a^6\,b^3\,C\,\text{Sin}[c]-88\,a^4\,b^5\,C\,\text{Sin}[c]-104\,a^2\,b^7\,C\,\text{Sin}[c]+24\,a^5\,A\,b^4\,\text{Sin}[d\,x]+102\,a^3\,A\,b^6\,\text{Sin}[d\,x]+$$

$$24\,a\,A\,b^8\,\text{Sin}[d\,x]-12\,a^6\,b^3\,B\,\text{Sin}[d\,x]-36\,a^4\,b^5\,B\,\text{Sin}[d\,x]-102\,a^2\,b^7\,B\,\text{Sin}[d\,x]+12\,a^9\,C\,\text{Sin}[d\,x]+$$

$$24\,a^7\,b^2\,C\,\text{Sin}[d\,x]-114\,a^5\,b^4\,C\,\text{Sin}[d\,x]+228\,a^3\,b^6\,C\,\text{Sin}[d\,x]-15\,a^5\,A\,b^4\,\text{Sin}[2\,c+d\,x]-60\,a^3\,A\,b^6\,\text{Sin}[2\,c+d\,x]+$$

$$45\,a^4\,b^5\,B\,\text{Sin}[2\,c+d\,x]+30\,a^2\,b^7\,B\,\text{Sin}[2\,c+d\,x]-6\,a^9\,C\,\text{Sin}[2\,c+d\,x]+3\,a^7\,b^2\,C\,\text{Sin}[2\,c+d\,x]+$$

$$12\,a^5\,b^4\,C\,\text{Sin}[2\,c+d\,x]-84\,a^3\,b^6\,C\,\text{Sin}[2\,c+d\,x]-3\,a^6\,A\,b^3\,\text{Sin}[c+2\,d\,x]+66\,a^4\,A\,b^5\,\text{Sin}[c+2\,d\,x]+$$

$$12\,a^2\,A\,b^7\,\text{Sin}[c+2\,d\,x]-15\,a^5\,b^4\,B\,\text{Sin}[c+2\,d\,x]-60\,a^3\,b^6\,B\,\text{Sin}[c+2\,d\,x]+33\,a^8\,b\,C\,\text{Sin}[c+2\,d\,x]-$$

$$96\,a^6\,b^3\,C\,\text{Sin}[c+2\,d\,x]+138\,a^4\,b^5\,C\,\text{Sin}[c+2\,d\,x]-3\,a^6\,A\,b^3\,\text{Sin}[3\,c+2\,d\,x]-12\,a^4\,A\,b^5\,\text{Sin}[3\,c+2\,d\,x]+$$

$$9\,a^5\,b^4\,B\,\text{Sin}[3\,c+2\,d\,x]+6\,a^3\,b^6\,B\,\text{Sin}[3\,c+2\,d\,x]-3\,a^8\,b\,C\,\text{Sin}[3\,c+2\,d\,x]+6\,a^6\,b^3\,C\,\text{Sin}[3\,c+2\,d\,x]-$$

$$18\,a^4\,b^5\,C\,\text{Sin}[3\,c+2\,d\,x]+13\,a^5\,A\,b^4\,\text{Sin}[2\,c+3\,d\,x]+2\,a^3\,A\,b^6\,\text{Sin}[2\,c+3\,d\,x]-4\,a^6\,b^3\,B\,\text{Sin}[2\,c+3\,d\,x]-$$

$$11\,a^4\,b^5\,B\,\text{Sin}[2\,c+3\,d\,x]+6\,a^9\,C\,\text{Sin}[2\,c+3\,d\,x]-17\,a^7\,b^2\,C\,\text{Sin}[2\,c+3\,d\,x]+26\,a^5\,b^4\,C\,\text{Sin}[2\,c+3\,d\,x]\Big)\Big)\Big/$$

$$\left(12\,a\,b^3\,\left(-a^2+b^2\right)^3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^4\right)$$

Incorrect antiderivative:

$$\left\{\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^4},\ x,\ 6,\ 0\right\}$$

$$-\frac{\left(2 a^3 A+3 a A b^2-4 a^2 b B-b^3 B+a^3 C+4 a b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{\left(a^2-b^2\right)^{7/2} d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Tan}[c+d x]}{3 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^3}-\frac{\left(5 a A b^2-2 a^2 b B-3 b^3 B-a^3 C+6 a b^2 C\right) \text{Tan}[c+d x]}{6 b \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])^2}-$$

$$\frac{\left(11 a^2 A b^2+4 A b^4-2 a^3 b B-13 a b^3 B-a^4 C+10 a^2 b^2 C+6 b^4 C\right) \text{Tan}[c+d x]}{6 b \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{\left(-a^2+b^2\right)^3 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^4}$$

$$\left(-2 a^3 A-3 a A b^2+4 a^2 b B+b^3 B-a^3 C-4 a b^2 C\right) (b+a \text{Cos}[c+d x])^4 \text{Sec}[c+d x]^2 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(-\frac{2 i \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Cos}[c]}{\sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\right.$$

$$\left.\frac{2 \text{ArcTan}\left[\text{Sec}\left[\frac{d x}{2}\right]\right] \left(\frac{\text{Cos}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}-\frac{i \text{Sin}[c]}{\sqrt{a^2-b^2} \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right) \left(-i b \text{Sin}\left[\frac{d x}{2}\right]+i a \text{Sin}\left[c+\frac{d x}{2}\right]\right)\right] \text{Sin}[c]}{\sqrt{a^2-b^2} d \sqrt{\text{Cos}[2 c]-i \text{Sin}[2 c]}}\right)-$$

$$\frac{1}{12 a^3 \left(-a^2+b^2\right)^3 d (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) (a+b \text{Sec}[c+d x])^4}$$

$$(b+a \text{Cos}[c+d x]) \text{Sec}[c] \text{Sec}[c+d x]^2 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(108 a^6 A b^2 \text{Sin}[c]+42 a^4 A b^4 \text{Sin}[c]-8 a^2 A b^6 \text{Sin}[c]+8 A b^8 \text{Sin}[c]-36 a^7 b B \text{Sin}[c]-84 a^5 b^3 B \text{Sin}[c]-\right.$$
$$34 a^3 b^5 B \text{Sin}[c]+4 a b^7 B \text{Sin}[c]+78 a^6 b^2 C \text{Sin}[c]+64 a^4 b^4 C \text{Sin}[c]+8 a^2 b^6 C \text{Sin}[c]-36 a^7 A b \text{Sin}[d x]-$$
$$120 a^5 A b^3 \text{Sin}[d x]+18 a^3 A b^5 \text{Sin}[d x]-12 a A b^7 \text{Sin}[d x]+12 a^8 B \text{Sin}[d x]+60 a^6 b^2 B \text{Sin}[d x]+84 a^4 b^4 B \text{Sin}[d x]-$$
$$6 a^2 b^6 B \text{Sin}[d x]-24 a^7 b C \text{Sin}[d x]-102 a^5 b^3 C \text{Sin}[d x]-24 a^3 b^5 C \text{Sin}[d x]+18 a^7 A b \text{Sin}[2 c+d x]+$$
$$81 a^5 A b^3 \text{Sin}[2 c+d x]-36 a^3 A b^5 \text{Sin}[2 c+d x]+12 a A b^7 \text{Sin}[2 c+d x]-6 a^8 B \text{Sin}[2 c+d x]-$$
$$42 a^6 b^2 B \text{Sin}[2 c+d x]-33 a^4 b^4 B \text{Sin}[2 c+d x]+6 a^2 b^6 B \text{Sin}[2 c+d x]+15 a^7 b C \text{Sin}[2 c+d x]+$$
$$60 a^5 b^3 C \text{Sin}[2 c+d x]-81 a^6 A b^2 \text{Sin}[c+2 d x]+12 a^4 A b^4 \text{Sin}[c+2 d x]-6 a^2 A b^6 \text{Sin}[c+2 d x]+$$
$$24 a^7 b B \text{Sin}[c+2 d x]+57 a^5 b^3 B \text{Sin}[c+2 d x]-6 a^3 b^5 B \text{Sin}[c+2 d x]+3 a^8 C \text{Sin}[c+2 d x]-66 a^6 b^2 C \text{Sin}[c+2 d x]-$$
$$12 a^4 b^4 C \text{Sin}[c+2 d x]+27 a^6 A b^2 \text{Sin}[3 c+2 d x]-18 a^4 A b^4 \text{Sin}[3 c+2 d x]+6 a^2 A b^6 \text{Sin}[3 c+2 d x]-$$
$$12 a^7 b B \text{Sin}[3 c+2 d x]-3 a^5 b^3 B \text{Sin}[3 c+2 d x]+3 a^8 C \text{Sin}[3 c+2 d x]+12 a^6 b^2 C \text{Sin}[3 c+2 d x]-$$
$$18 a^7 A b \text{Sin}[2 c+3 d x]+5 a^5 A b^3 \text{Sin}[2 c+3 d x]-2 a^3 A b^5 \text{Sin}[2 c+3 d x]+6 a^8 B \text{Sin}[2 c+3 d x]+$$
$$\left.10 a^6 b^2 B \text{Sin}[2 c+3 d x]-a^4 b^4 B \text{Sin}[2 c+3 d x]-13 a^7 b C \text{Sin}[2 c+3 d x]-2 a^5 b^3 C \text{Sin}[2 c+3 d x]\right)$$

Incorrect antiderivative:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{(a+b \text{Sec}[c+d x])^4}, x, 5, 0\right\}$$

$$\frac{A x}{a^4}+\frac{\left(8 a^6 A b-8 a^4 A b^3+7 a^2 A b^5-2 A b^7-2 a^7 B-3 a^5 b^2 B+4 a^6 b C+a^4 b^3 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4 \left(a^2-b^2\right)^{7/2} d}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Tan}[c+d x]}{3 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^3}+\frac{\left(8 a^2 A b^2-3 A b^4-5 a^3 b B+2 a^4 C+3 a^2 b^2 C\right) \text{Tan}[c+d x]}{6 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(26 a^4 A b^2-17 a^2 A b^4+6 A b^6-11 a^5 b B-4 a^3 b^3 B+2 a^6 C+13 a^4 b^2 C\right) \text{Tan}[c+d x]}{6 a^3 \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])}$$

$$\frac{1}{\left(-a^2+b^2\right)^3 (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$

$$\left(-8a^6Ab+8a^4Ab^3-7a^2Ab^5+2Ab^7+2a^7B+3a^5b^2B-4a^6bC-a^4b^3C\right)$$

$$(b+a\,\mathrm{Cos}[c+dx])^4\,\mathrm{Sec}[c+dx]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\Big]\,\mathrm{Cos}[c]}{a^4\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}+\right.$$

$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\Big]\,\mathrm{Sin}[c]}{a^4\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)+$$

$$\frac{1}{12a^4\left(a^2-b^2\right)^3 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$

$$(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\begin{aligned}
&\big(36a^8Abdx\,\mathrm{Cos}[c]-84a^6Ab^3dx\,\mathrm{Cos}[c]+36a^4Ab^5dx\,\mathrm{Cos}[c]+36a^2Ab^7dx\,\mathrm{Cos}[c]-24Ab^9dx\,\mathrm{Cos}[c]+\\
&9a^9Adx\,\mathrm{Cos}[dx]+9a^7Ab^2dx\,\mathrm{Cos}[dx]-81a^5Ab^4dx\,\mathrm{Cos}[dx]+99a^3Ab^6dx\,\mathrm{Cos}[dx]-36aAb^8dx\,\mathrm{Cos}[dx]+\\
&9a^9Adx\,\mathrm{Cos}[2c+dx]+9a^7Ab^2dx\,\mathrm{Cos}[2c+dx]-81a^5Ab^4dx\,\mathrm{Cos}[2c+dx]+99a^3Ab^6dx\,\mathrm{Cos}[2c+dx]-\\
&36aAb^8dx\,\mathrm{Cos}[2c+dx]+18a^8Abdx\,\mathrm{Cos}[c+2dx]-54a^6Ab^3dx\,\mathrm{Cos}[c+2dx]+54a^4Ab^5dx\,\mathrm{Cos}[c+2dx]-\\
&18a^2Ab^7dx\,\mathrm{Cos}[c+2dx]+18a^8Abdx\,\mathrm{Cos}[3c+2dx]-54a^6Ab^3dx\,\mathrm{Cos}[3c+2dx]+54a^4Ab^5dx\,\mathrm{Cos}[3c+2dx]-\\
&18a^2Ab^7dx\,\mathrm{Cos}[3c+2dx]+3a^9Adx\,\mathrm{Cos}[2c+3dx]-9a^7Ab^2dx\,\mathrm{Cos}[2c+3dx]+9a^5Ab^4dx\,\mathrm{Cos}[2c+3dx]-\\
&3a^3Ab^6dx\,\mathrm{Cos}[2c+3dx]+3a^9Adx\,\mathrm{Cos}[4c+3dx]-9a^7Ab^2dx\,\mathrm{Cos}[4c+3dx]+9a^5Ab^4dx\,\mathrm{Cos}[4c+3dx]-\\
&3a^3Ab^6dx\,\mathrm{Cos}[4c+3dx]-216a^6Ab^3\,\mathrm{Sin}[c]+48a^4Ab^5\,\mathrm{Sin}[c]+62a^2Ab^7\,\mathrm{Sin}[c]-44Ab^9\,\mathrm{Sin}[c]+\\
&108a^7b^2B\,\mathrm{Sin}[c]+42a^5b^4B\,\mathrm{Sin}[c]-8a^3b^6B\,\mathrm{Sin}[c]+8ab^8B\,\mathrm{Sin}[c]-36a^8bC\,\mathrm{Sin}[c]-84a^6b^3C\,\mathrm{Sin}[c]-\\
&34a^4b^5C\,\mathrm{Sin}[c]+4a^2b^7C\,\mathrm{Sin}[c]+72a^7Ab^2\,\mathrm{Sin}[dx]+204a^5Ab^4\,\mathrm{Sin}[dx]-204a^3Ab^6\,\mathrm{Sin}[dx]+78aAb^8\,\mathrm{Sin}[dx]-\\
&36a^8bB\,\mathrm{Sin}[dx]-120a^6b^3B\,\mathrm{Sin}[dx]+18a^4b^5B\,\mathrm{Sin}[dx]-12a^2b^7B\,\mathrm{Sin}[dx]+12a^9C\,\mathrm{Sin}[dx]+60a^7b^2C\,\mathrm{Sin}[dx]+\\
&84a^5b^4C\,\mathrm{Sin}[dx]-6a^3b^6C\,\mathrm{Sin}[dx]-36a^7Ab^2\,\mathrm{Sin}[2c+dx]-132a^5Ab^4\,\mathrm{Sin}[2c+dx]+147a^3Ab^6\,\mathrm{Sin}[2c+dx]-\\
&54aAb^8\,\mathrm{Sin}[2c+dx]+18a^8bB\,\mathrm{Sin}[2c+dx]+81a^6b^3B\,\mathrm{Sin}[2c+dx]-36a^4b^5B\,\mathrm{Sin}[2c+dx]+12a^2b^7B\,\mathrm{Sin}[2c+dx]-\\
&6a^9C\,\mathrm{Sin}[2c+dx]-42a^7b^2C\,\mathrm{Sin}[2c+dx]-33a^5b^4C\,\mathrm{Sin}[2c+dx]+6a^3b^6C\,\mathrm{Sin}[2c+dx]+168a^6Ab^3\,\mathrm{Sin}[c+2dx]-\\
&141a^4Ab^5\,\mathrm{Sin}[c+2dx]+48a^2Ab^7\,\mathrm{Sin}[c+2dx]-81a^7b^2B\,\mathrm{Sin}[c+2dx]+12a^5b^4B\,\mathrm{Sin}[c+2dx]-\\
&6a^3b^6B\,\mathrm{Sin}[c+2dx]+24a^8bC\,\mathrm{Sin}[c+2dx]+57a^6b^3C\,\mathrm{Sin}[c+2dx]-6a^4b^5C\,\mathrm{Sin}[c+2dx]-48a^6Ab^3\,\mathrm{Sin}[3c+2dx]+\\
&51a^4Ab^5\,\mathrm{Sin}[3c+2dx]-18a^2Ab^7\,\mathrm{Sin}[3c+2dx]+27a^7b^2B\,\mathrm{Sin}[3c+2dx]-18a^5b^4B\,\mathrm{Sin}[3c+2dx]+\\
&6a^3b^6B\,\mathrm{Sin}[3c+2dx]-12a^8bC\,\mathrm{Sin}[3c+2dx]-3a^6b^3C\,\mathrm{Sin}[3c+2dx]+36a^7Ab^2\,\mathrm{Sin}[2c+3dx]-\\
&32a^5Ab^4\,\mathrm{Sin}[2c+3dx]+11a^3Ab^6\,\mathrm{Sin}[2c+3dx]-18a^8bB\,\mathrm{Sin}[2c+3dx]+5a^6b^3B\,\mathrm{Sin}[2c+3dx]-\\
&2a^4b^5B\,\mathrm{Sin}[2c+3dx]+6a^9C\,\mathrm{Sin}[2c+3dx]+10a^7b^2C\,\mathrm{Sin}[2c+3dx]-a^5b^4C\,\mathrm{Sin}[2c+3dx]\big)
\end{aligned}$$

Incorrect antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^4},\ x,\ 7,\ 0\right\}$$

$$-\frac{(4 A b - a B) x}{a^5} - \frac{\left(20 a^6 A b^2 - 35 a^4 A b^4 + 28 a^2 A b^6 - 8 A b^8 - 8 a^7 b B + 8 a^5 b^3 B - 7 a^3 b^5 B + 2 a b^7 B + 2 a^8 C + 3 a^6 b^2 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]}{a^5 \left(a^2 - b^2\right)^{7/2} d} + \frac{\left(6 a^6 A - 65 a^4 A b^2 + 68 a^2 A b^4 - 24 A b^6 + 26 a^5 b B - 17 a^3 b^3 B + 6 a b^5 B - 11 a^6 C - 4 a^4 b^2 C\right) \text{Sin}[c + d x]}{6 a^4 \left(a^2 - b^2\right)^3 d} + \frac{\left(A b^2 - a b B + a^2 C\right) \text{Sin}[c + d x]}{3 a \left(a^2 - b^2\right) d (a + b \text{Sec}[c + d x])^3} + \frac{\left(9 a^2 A b^2 - 4 A b^4 - 6 a^3 b B + a b^3 B + 3 a^4 C + 2 a^2 b^2 C\right) \text{Sin}[c + d x]}{6 a^2 \left(a^2 - b^2\right)^2 d (a + b \text{Sec}[c + d x])^2} + \frac{\left(12 a^4 A b^2 - 11 a^2 A b^4 + 4 A b^6 - 6 a^5 b B + 2 a^3 b^3 B - a b^5 B + 2 a^6 C + 3 a^4 b^2 C\right) \text{Sin}[c + d x]}{2 a^3 \left(a^2 - b^2\right)^3 d (a + b \text{Sec}[c + d x])}$$

$$\frac{1}{\left(-a^2+b^2\right)^3 (A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$
$$\left(-20a^6Ab^2+35a^4Ab^4-28a^2Ab^6+8Ab^8+8a^7bB-8a^5b^3B+7a^3b^5B-2ab^7B-2a^8C-3a^6b^2C\right)$$
$$(b+a\,\mathrm{Cos}[c+dx])^4\,\mathrm{Sec}[c+dx]^3\,(B+A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$
$$\left(-\frac{2\,i\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Cos}[c]}{a^5\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\right.$$
$$\left.\frac{2\,\mathrm{ArcTan}\left[\mathrm{Sec}\left[\frac{dx}{2}\right]\left(\frac{\mathrm{Cos}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}-\frac{i\,\mathrm{Sin}[c]}{\sqrt{a^2-b^2}\,\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)\left(-i\,b\,\mathrm{Sin}\left[\frac{dx}{2}\right]+i\,a\,\mathrm{Sin}\left[c+\frac{dx}{2}\right]\right)\right]\mathrm{Sin}[c]}{a^5\sqrt{a^2-b^2}\;d\sqrt{\mathrm{Cos}[2c]-i\,\mathrm{Sin}[2c]}}\right)+$$

$$\frac{1}{24a^5\left(a^2-b^2\right)^3 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^4}$$
$$(b+a\,\mathrm{Cos}[c+dx])\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(B+A\,\mathrm{Cos}[c+dx]+C\,\mathrm{Sec}[c+dx])$$
$$\left(-288a^8Ab^2dx\,\mathrm{Cos}[c]+672a^6Ab^4dx\,\mathrm{Cos}[c]-288a^4Ab^6dx\,\mathrm{Cos}[c]-288a^2Ab^8dx\,\mathrm{Cos}[c]+192Ab^{10}dx\,\mathrm{Cos}[c]+\right.$$
$$72a^9bBdx\,\mathrm{Cos}[c]-168a^7b^3Bdx\,\mathrm{Cos}[c]+72a^5b^5Bdx\,\mathrm{Cos}[c]+72a^3b^7Bdx\,\mathrm{Cos}[c]-48ab^9Bdx\,\mathrm{Cos}[c]-$$
$$72a^9Abdx\,\mathrm{Cos}[dx]-72a^7Ab^3dx\,\mathrm{Cos}[dx]+648a^5Ab^5dx\,\mathrm{Cos}[dx]-792a^3Ab^7dx\,\mathrm{Cos}[dx]+$$
$$288aAb^9dx\,\mathrm{Cos}[dx]+18a^{10}Bdx\,\mathrm{Cos}[dx]+18a^8b^2Bdx\,\mathrm{Cos}[dx]-162a^6b^4Bdx\,\mathrm{Cos}[dx]+198a^4b^6Bdx\,\mathrm{Cos}[dx]-$$
$$72a^2b^8Bdx\,\mathrm{Cos}[dx]-72a^9Abdx\,\mathrm{Cos}[2c+dx]-72a^7Ab^3dx\,\mathrm{Cos}[2c+dx]+648a^5Ab^5dx\,\mathrm{Cos}[2c+dx]-$$
$$792a^3Ab^7dx\,\mathrm{Cos}[2c+dx]+288aAb^9dx\,\mathrm{Cos}[2c+dx]+18a^{10}Bdx\,\mathrm{Cos}[2c+dx]+18a^8b^2Bdx\,\mathrm{Cos}[2c+dx]-$$
$$162a^6b^4Bdx\,\mathrm{Cos}[2c+dx]+198a^4b^6Bdx\,\mathrm{Cos}[2c+dx]-72a^2b^8Bdx\,\mathrm{Cos}[2c+dx]-144a^8Ab^2dx\,\mathrm{Cos}[c+2dx]+$$
$$432a^6Ab^4dx\,\mathrm{Cos}[c+2dx]-432a^4Ab^6dx\,\mathrm{Cos}[c+2dx]+144a^2Ab^8dx\,\mathrm{Cos}[c+2dx]+36a^9bBdx\,\mathrm{Cos}[c+2dx]-$$
$$108a^7b^3Bdx\,\mathrm{Cos}[c+2dx]+108a^5b^5Bdx\,\mathrm{Cos}[c+2dx]-36a^3b^7Bdx\,\mathrm{Cos}[c+2dx]-144a^8Ab^2dx\,\mathrm{Cos}[3c+2dx]+$$
$$432a^6Ab^4dx\,\mathrm{Cos}[3c+2dx]-432a^4Ab^6dx\,\mathrm{Cos}[3c+2dx]+144a^2Ab^8dx\,\mathrm{Cos}[3c+2dx]+$$
$$36a^9bBdx\,\mathrm{Cos}[3c+2dx]-108a^7b^3Bdx\,\mathrm{Cos}[3c+2dx]+108a^5b^5Bdx\,\mathrm{Cos}[3c+2dx]-36a^3b^7Bdx\,\mathrm{Cos}[3c+2dx]-$$
$$24a^9Abdx\,\mathrm{Cos}[2c+3dx]+72a^7Ab^3dx\,\mathrm{Cos}[2c+3dx]-72a^5Ab^5dx\,\mathrm{Cos}[2c+3dx]+24a^3Ab^7dx\,\mathrm{Cos}[2c+3dx]+$$
$$6a^{10}Bdx\,\mathrm{Cos}[2c+3dx]-18a^8b^2Bdx\,\mathrm{Cos}[2c+3dx]+18a^6b^4Bdx\,\mathrm{Cos}[2c+3dx]-6a^4b^6Bdx\,\mathrm{Cos}[2c+3dx]-$$
$$24a^9Abdx\,\mathrm{Cos}[4c+3dx]+72a^7Ab^3dx\,\mathrm{Cos}[4c+3dx]-72a^5Ab^5dx\,\mathrm{Cos}[4c+3dx]+24a^3Ab^7dx\,\mathrm{Cos}[4c+3dx]+$$
$$6a^{10}Bdx\,\mathrm{Cos}[4c+3dx]-18a^8b^2Bdx\,\mathrm{Cos}[4c+3dx]+18a^6b^4Bdx\,\mathrm{Cos}[4c+3dx]-6a^4b^6Bdx\,\mathrm{Cos}[4c+3dx]+$$
$$720a^6Ab^4\,\mathrm{Sin}[c]-372a^4Ab^6\,\mathrm{Sin}[c]-256a^2Ab^8\,\mathrm{Sin}[c]+208Ab^{10}\,\mathrm{Sin}[c]-432a^7b^3B\,\mathrm{Sin}[c]+$$
$$96a^5b^5B\,\mathrm{Sin}[c]+124a^3b^7B\,\mathrm{Sin}[c]-88ab^9B\,\mathrm{Sin}[c]+216a^8b^2C\,\mathrm{Sin}[c]+84a^6b^4C\,\mathrm{Sin}[c]-16a^4b^6C\,\mathrm{Sin}[c]+$$
$$16a^2b^8C\,\mathrm{Sin}[c]+18a^9Ab\,\mathrm{Sin}[dx]-270a^7Ab^3\,\mathrm{Sin}[dx]-642a^5Ab^5\,\mathrm{Sin}[dx]+1002a^3Ab^7\,\mathrm{Sin}[dx]-$$
$$408aAb^9\,\mathrm{Sin}[dx]+144a^8b^2B\,\mathrm{Sin}[dx]+408a^6b^4B\,\mathrm{Sin}[dx]-408a^4b^6B\,\mathrm{Sin}[dx]+156a^2b^8B\,\mathrm{Sin}[dx]-$$
$$72a^9bC\,\mathrm{Sin}[dx]-240a^7b^3C\,\mathrm{Sin}[dx]+36a^5b^5C\,\mathrm{Sin}[dx]-24a^3b^7C\,\mathrm{Sin}[dx]+18a^9Ab\,\mathrm{Sin}[2c+dx]+$$
$$90a^7Ab^3\,\mathrm{Sin}[2c+dx]+372a^5Ab^5\,\mathrm{Sin}[2c+dx]-546a^3Ab^7\,\mathrm{Sin}[2c+dx]+216aAb^9\,\mathrm{Sin}[2c+dx]-$$
$$72a^8b^2B\,\mathrm{Sin}[2c+dx]-264a^6b^4B\,\mathrm{Sin}[2c+dx]+294a^4b^6B\,\mathrm{Sin}[2c+dx]-108a^2b^8B\,\mathrm{Sin}[2c+dx]+$$
$$36a^9bC\,\mathrm{Sin}[2c+dx]+162a^7b^3C\,\mathrm{Sin}[2c+dx]-72a^5b^5C\,\mathrm{Sin}[2c+dx]+24a^3b^7C\,\mathrm{Sin}[2c+dx]+$$
$$6a^{10}A\,\mathrm{Sin}[c+2dx]+18a^8Ab^2\,\mathrm{Sin}[c+2dx]-660a^6Ab^4\,\mathrm{Sin}[c+2dx]+762a^4Ab^6\,\mathrm{Sin}[c+2dx]-$$
$$276a^2Ab^8\,\mathrm{Sin}[c+2dx]+336a^7b^3B\,\mathrm{Sin}[c+2dx]-282a^5b^5B\,\mathrm{Sin}[c+2dx]+96a^3b^7B\,\mathrm{Sin}[c+2dx]-$$
$$162a^8b^2C\,\mathrm{Sin}[c+2dx]+24a^6b^4C\,\mathrm{Sin}[c+2dx]-12a^4b^6C\,\mathrm{Sin}[c+2dx]+6a^{10}A\,\mathrm{Sin}[3c+2dx]+$$
$$18a^8Ab^2\,\mathrm{Sin}[3c+2dx]+60a^6Ab^4\,\mathrm{Sin}[3c+2dx]-90a^4Ab^6\,\mathrm{Sin}[3c+2dx]+36a^2Ab^8\,\mathrm{Sin}[3c+2dx]-$$
$$96a^7b^3B\,\mathrm{Sin}[3c+2dx]+102a^5b^5B\,\mathrm{Sin}[3c+2dx]-36a^3b^7B\,\mathrm{Sin}[3c+2dx]+54a^8b^2C\,\mathrm{Sin}[3c+2dx]-$$
$$36a^6b^4C\,\mathrm{Sin}[3c+2dx]+12a^4b^6C\,\mathrm{Sin}[3c+2dx]+18a^9Ab\,\mathrm{Sin}[2c+3dx]-174a^7Ab^3\,\mathrm{Sin}[2c+3dx]+$$
$$196a^5Ab^5\,\mathrm{Sin}[2c+3dx]-70a^3Ab^7\,\mathrm{Sin}[2c+3dx]+72a^8b^2B\,\mathrm{Sin}[2c+3dx]-64a^6b^4B\,\mathrm{Sin}[2c+3dx]+$$
$$22a^4b^6B\,\mathrm{Sin}[2c+3dx]-36a^9bC\,\mathrm{Sin}[2c+3dx]+10a^7b^3C\,\mathrm{Sin}[2c+3dx]-4a^5b^5C\,\mathrm{Sin}[2c+3dx]+$$
$$18a^9Ab\,\mathrm{Sin}[4c+3dx]-54a^7Ab^3\,\mathrm{Sin}[4c+3dx]+54a^5Ab^5\,\mathrm{Sin}[4c+3dx]-18a^3Ab^7\,\mathrm{Sin}[4c+3dx]+$$
$$3a^{10}A\,\mathrm{Sin}[3c+4dx]-9a^8Ab^2\,\mathrm{Sin}[3c+4dx]+9a^6Ab^4\,\mathrm{Sin}[3c+4dx]-3a^4Ab^6\,\mathrm{Sin}[3c+4dx]+$$
$$\left.3a^{10}A\,\mathrm{Sin}[5c+4dx]-9a^8Ab^2\,\mathrm{Sin}[5c+4dx]+9a^6Ab^4\,\mathrm{Sin}[5c+4dx]-3a^4Ab^6\,\mathrm{Sin}[5c+4dx]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\mathrm{Cos}[c+dx]^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^4},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2 A+20 A b^2-8 a b B+2 a^2 C\right) x}{2 a^6}+\frac{1}{a^6 \left(a^2-b^2\right)^{7/2} d}$$

$$b \left(40 a^6 A b^2-84 a^4 A b^4+69 a^2 A b^6-20 A b^8-20 a^7 b B+35 a^5 b^3 B-28 a^3 b^5 B+8 a b^7 B+8 a^8 C-8 a^6 b^2 C+7 a^4 b^4 C-2 a^2 b^6 C\right)$$

$$\text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right]-$$

$$\frac{\left(24 a^6 A b-146 a^4 A b^3+167 a^2 A b^5-60 A b^7-6 a^7 B+65 a^5 b^2 B-68 a^3 b^4 B+24 a b^6 B-26 a^6 b C+17 a^4 b^3 C-6 a^2 b^5 C\right) \text{Sin}[c+d x]}{6 a^5 \left(a^2-b^2\right)^3 d}$$

$$+\frac{\left(a^6 A-23 a^4 A b^2+27 a^2 A b^4-10 A b^6+12 a^5 b B-11 a^3 b^3 B+4 a b^5 B-6 a^6 C+2 a^4 b^2 C-a^2 b^4 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{2 a^4 \left(a^2-b^2\right)^3 d}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{3 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^3}+\frac{\left(10 a^2 A b^2-5 A b^4-7 a^3 b B+2 a b^3 B+4 a^4 C+a^2 b^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{6 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(48 a^4 A b^2-53 a^2 A b^4+20 A b^6-27 a^5 b B+20 a^3 b^3 B-8 a b^5 B+12 a^6 C+a^4 b^2 C+2 a^2 b^4 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{6 a^3 \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])}$$

$$\left(b \left(-40 a^6 A b^2+84 a^4 A b^4-69 a^2 A b^6+20 A b^8+20 a^7 b B-35 a^5 b^3 B+28 a^3 b^5 B-8 a b^7 B-8 a^8 C+8 a^6 b^2 C-7 a^4 b^4 C+2 a^2 b^6 C\right) \text{ArcTanh}\left[\frac{(-a+b) \text{Tan}\left[\frac{1}{2} (c+d x)\right]}{\sqrt{a^2-b^2}}\right] (b+a \text{Cos}[c+d x])^4 \text{Sec}[c+d x]^4\right) \Big/ \left(a^6 \sqrt{a^2-b^2} \left(-a^2+b^2\right)^3 d (a+b \text{Sec}[c+d x])^4\right)+\frac{1}{96 a^6 \left(a^2-b^2\right)^3 d (a+b \text{Sec}[c+d x])^4}$$

$$(b+a \text{Cos}[c+d x]) \text{Sec}[c+d x]^4 \left(72 a^{10} A b (c+d x)+1272 a^8 A b^3 (c+d x)-3288 a^6 A b^5 (c+d x)+1512 a^4 A b^7 (c+d x)+\right.$$
$$1392 a^2 A b^9 (c+d x)-960 A b^{11} (c+d x)-576 a^9 b^2 B (c+d x)+1344 a^7 b^4 B (c+d x)-576 a^5 b^6 B (c+d x)-$$
$$576 a^3 b^8 B (c+d x)+384 a b^{10} B (c+d x)+144 a^{10} b C (c+d x)-336 a^8 b^3 C (c+d x)+144 a^6 b^5 C (c+d x)+$$
$$144 a^4 b^7 C (c+d x)-96 a^2 b^9 C (c+d x)+36 a^{11} A (c+d x) \text{Cos}[c+d x]+756 a^9 A b^2 (c+d x) \text{Cos}[c+d x]+$$
$$396 a^7 A b^4 (c+d x) \text{Cos}[c+d x]-6084 a^5 A b^6 (c+d x) \text{Cos}[c+d x]+7776 a^3 A b^8 (c+d x) \text{Cos}[c+d x]-$$
$$2880 a A b^{10} (c+d x) \text{Cos}[c+d x]-288 a^{10} b B (c+d x) \text{Cos}[c+d x]-288 a^8 b^3 B (c+d x) \text{Cos}[c+d x]+$$
$$2592 a^6 b^5 B (c+d x) \text{Cos}[c+d x]-3168 a^4 b^7 B (c+d x) \text{Cos}[c+d x]+1152 a^2 b^9 B (c+d x) \text{Cos}[c+d x]+$$
$$72 a^{11} C (c+d x) \text{Cos}[c+d x]+72 a^9 b^2 C (c+d x) \text{Cos}[c+d x]-648 a^7 b^4 C (c+d x) \text{Cos}[c+d x]+$$
$$792 a^5 b^6 C (c+d x) \text{Cos}[c+d x]-288 a^3 b^8 C (c+d x) \text{Cos}[c+d x]+72 a^{10} A b (c+d x) \text{Cos}[2 (c+d x)]+$$
$$1224 a^8 A b^3 (c+d x) \text{Cos}[2 (c+d x)]-4104 a^6 A b^5 (c+d x) \text{Cos}[2 (c+d x)]+4248 a^4 A b^7 (c+d x) \text{Cos}[2 (c+d x)]-$$
$$1440 a^2 A b^9 (c+d x) \text{Cos}[2 (c+d x)]-576 a^9 b^2 B (c+d x) \text{Cos}[2 (c+d x)]+1728 a^7 b^4 B (c+d x) \text{Cos}[2 (c+d x)]-$$
$$1728 a^5 b^6 B (c+d x) \text{Cos}[2 (c+d x)]+576 a^3 b^8 B (c+d x) \text{Cos}[2 (c+d x)]+144 a^{10} b C (c+d x) \text{Cos}[2 (c+d x)]-$$
$$432 a^8 b^3 C (c+d x) \text{Cos}[2 (c+d x)]+432 a^6 b^5 C (c+d x) \text{Cos}[2 (c+d x)]-144 a^4 b^7 C (c+d x) \text{Cos}[2 (c+d x)]+$$
$$12 a^{11} A (c+d x) \text{Cos}[3 (c+d x)]+204 a^9 A b^2 (c+d x) \text{Cos}[3 (c+d x)]-684 a^7 A b^4 (c+d x) \text{Cos}[3 (c+d x)]+$$
$$708 a^5 A b^6 (c+d x) \text{Cos}[3 (c+d x)]-240 a^3 A b^8 (c+d x) \text{Cos}[3 (c+d x)]-96 a^{10} b B (c+d x) \text{Cos}[3 (c+d x)]+$$
$$288 a^8 b^3 B (c+d x) \text{Cos}[3 (c+d x)]-288 a^6 b^5 B (c+d x) \text{Cos}[3 (c+d x)]+96 a^4 b^7 B (c+d x) \text{Cos}[3 (c+d x)]+$$
$$24 a^{11} C (c+d x) \text{Cos}[3 (c+d x)]-72 a^9 b^2 C (c+d x) \text{Cos}[3 (c+d x)]+72 a^7 b^4 C (c+d x) \text{Cos}[3 (c+d x)]-$$
$$24 a^5 b^6 C (c+d x) \text{Cos}[3 (c+d x)]+6 a^{11} A \text{Sin}[c+d x]-270 a^9 A b^2 \text{Sin}[c+d x]+750 a^7 A b^4 \text{Sin}[c+d x]+$$
$$1086 a^5 A b^6 \text{Sin}[c+d x]-2232 a^3 A b^8 \text{Sin}[c+d x]+960 a A b^{10} \text{Sin}[c+d x]+72 a^{10} b B \text{Sin}[c+d x]-$$
$$360 a^8 b^3 B \text{Sin}[c+d x]-540 a^6 b^5 B \text{Sin}[c+d x]+912 a^4 b^7 B \text{Sin}[c+d x]-384 a^2 b^9 B \text{Sin}[c+d x]+144 a^9 b^2 C \text{Sin}[c+d x]+$$
$$288 a^7 b^4 C \text{Sin}[c+d x]-228 a^5 b^6 C \text{Sin}[c+d x]+96 a^3 b^8 C \text{Sin}[c+d x]-60 a^{10} A b \text{Sin}[2 (c+d x)]-$$
$$372 a^8 A b^3 \text{Sin}[2 (c+d x)]+2772 a^6 A b^5 \text{Sin}[2 (c+d x)]-3300 a^4 A b^7 \text{Sin}[2 (c+d x)]+1200 a^2 A b^9 \text{Sin}[2 (c+d x)]+$$
$$24 a^{11} B \text{Sin}[2 (c+d x)]+72 a^9 b^2 B \text{Sin}[2 (c+d x)]-1200 a^7 b^4 B \text{Sin}[2 (c+d x)]+1344 a^5 b^6 B \text{Sin}[2 (c+d x)]-$$
$$480 a^3 b^8 B \text{Sin}[2 (c+d x)]+480 a^8 b^3 C \text{Sin}[2 (c+d x)]-360 a^6 b^5 C \text{Sin}[2 (c+d x)]+120 a^4 b^7 C \text{Sin}[2 (c+d x)]+$$
$$9 a^{11} A \text{Sin}[3 (c+d x)]-279 a^9 A b^2 \text{Sin}[3 (c+d x)]+1143 a^7 A b^4 \text{Sin}[3 (c+d x)]-1253 a^5 A b^6 \text{Sin}[3 (c+d x)]+$$
$$440 a^3 A b^8 \text{Sin}[3 (c+d x)]+72 a^{10} b B \text{Sin}[3 (c+d x)]-456 a^8 b^3 B \text{Sin}[3 (c+d x)]+500 a^6 b^5 B \text{Sin}[3 (c+d x)]-$$
$$176 a^4 b^7 B \text{Sin}[3 (c+d x)]+144 a^9 b^2 C \text{Sin}[3 (c+d x)]-128 a^7 b^4 C \text{Sin}[3 (c+d x)]+44 a^5 b^6 C \text{Sin}[3 (c+d x)]-$$
$$30 a^{10} A b \text{Sin}[4 (c+d x)]+90 a^8 A b^3 \text{Sin}[4 (c+d x)]-90 a^6 A b^5 \text{Sin}[4 (c+d x)]+30 a^4 A b^7 \text{Sin}[4 (c+d x)]+$$
$$12 a^{11} B \text{Sin}[4 (c+d x)]-36 a^9 b^2 B \text{Sin}[4 (c+d x)]+36 a^7 b^4 B \text{Sin}[4 (c+d x)]-12 a^5 b^6 B \text{Sin}[4 (c+d x)]+$$
$$\left.3 a^{11} A \text{Sin}[5 (c+d x)]-9 a^9 A b^2 \text{Sin}[5 (c+d x)]+9 a^7 A b^4 \text{Sin}[5 (c+d x)]-3 a^5 A b^6 \text{Sin}[5 (c+d x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\mathrm{Sec}[c+d\,x])^2\left(a\,b\,B-a^2\,C+b^2\,B\,\mathrm{Sec}[c+d\,x]+b^2\,C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 5,\ 0\right\}$$

$$a^3\,(b\,B-a\,C)\,x+\frac{b\left(6\,a^2\,b\,B+b^3\,B-4\,a^3\,C+2\,a\,b^2\,C\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+\frac{b^2\left(15\,a\,b\,B-4\,a^2\,C+4\,b^2\,C\right)\mathrm{Tan}[c+d\,x]}{6\,d}+$$
$$\frac{b^2\,(3\,b\,B+2\,a\,C)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{6\,d}+\frac{b^2\,C\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\frac{1}{12\,d}\left(-12\,a^3\,(-b\,B+a\,C)\,(c+d\,x)-6\,b\left(6\,a^2\,b\,B+b^3\,B-4\,a^3\,C+2\,a\,b^2\,C\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+\right.$$
$$6\,b\left(6\,a^2\,b\,B+b^3\,B-4\,a^3\,C+2\,a\,b^2\,C\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$\frac{b^3\,(6\,a\,C+b\,(3\,B+C))}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{2\,b^4\,C\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}+\frac{4\,b^3\,(9\,a\,B+2\,b\,C)\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}+$$
$$\left.\frac{2\,b^4\,C\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^3}-\frac{b^3\,(6\,a\,C+b\,(3\,B+C))}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{4\,b^3\,(9\,a\,B+2\,b\,C)\,\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}{\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{(a+b\,\mathrm{Sec}[c+d\,x])\left(a\,b\,B-a^2\,C+b^2\,B\,\mathrm{Sec}[c+d\,x]+b^2\,C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 4,\ 0\right\}$$

$$a^2\,(b\,B-a\,C)\,x+\frac{b\left(4\,a\,b\,B-2\,a^2\,C+b^2\,C\right)\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{2\,d}+$$
$$\frac{b^2\,(2\,b\,B+a\,C)\,\mathrm{Tan}[c+d\,x]}{2\,d}+\frac{b^2\,C\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Tan}[c+d\,x]}{2\,d}$$

$$\frac{1}{4\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(b\,C+(b\,B-a\,C)\,\mathrm{Cos}[c+d\,x])}$$
$$\mathrm{Cos}[c+d\,x]^3\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,(-b\,B+a\,C-b\,C\,\mathrm{Sec}[c+d\,x])\left(-4\,a^2\,b\,B\,c+4\,a^3\,c\,C-4\,a^2\,b\,B\,d\,x+4\,a^3\,C\,d\,x+\right.$$
$$2\,b\left(4\,a\,b\,B-2\,a^2\,C+b^2\,C\right)\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-8\,a\,b^2\,B\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+$$
$$4\,a^2\,b\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-2\,b^3\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]-$$
$$\left.\frac{b^3\,C}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}+\frac{b^3\,C}{\left(\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right)^2}-4\,b^2\,(b\,B+a\,C)\,\mathrm{Tan}[c+d\,x]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{a\,b\,B-a^2\,C+b^2\,B\,\mathrm{Sec}[c+d\,x]+b^2\,C\,\mathrm{Sec}[c+d\,x]^2}{a+b\,\mathrm{Sec}[c+d\,x]},\ x,\ 3,\ 0\right\}$$

$$(b\,B-a\,C)\,x+\frac{b\,C\,\mathrm{ArcTanh}[\mathrm{Sin}[c+d\,x]]}{d}$$
$$\frac{(b\,B-a\,C)\,d\,x-b\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]-\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]+b\,C\,\mathrm{Log}\left[\mathrm{Cos}\left[\frac{1}{2}\,(c+d\,x)\right]+\mathrm{Sin}\left[\frac{1}{2}\,(c+d\,x)\right]\right]}{d}$$

Incorrect antiderivative:

$$\left\{\frac{a\,b\,B-a^2\,C+b^2\,B\,\text{Sec}[c+d\,x]+b^2\,C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^4},\ x,\ 5,\ 0\right\}$$

$$\frac{(b\,B-a\,C)\,x}{a^3}+\frac{b\left(6\,a^4\,b\,B-5\,a^2\,b^3\,B+2\,b^5\,B-8\,a^5\,C+4\,a^3\,b^2\,C-2\,a\,b^4\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^3\left(a^2-b^2\right)^{5/2}\,d}+$$

$$\frac{b^2\,(b\,B-2\,a\,C)\,\text{Tan}[c+d\,x]}{2\,a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{b^2\left(5\,a^2\,b\,B-2\,b^3\,B-8\,a^3\,C+2\,a\,b^2\,C\right)\text{Tan}[c+d\,x]}{2\,a^2\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\left((b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]^2\,(b\,B-a\,C+b\,C\,\text{Sec}[c+d\,x])\left(2\,(b\,B-a\,C)\,(c+d\,x)\,(b+a\,\text{Cos}[c+d\,x])^2+\right.\right.$$

$$\frac{2\,b\left(6\,a^4\,b\,B-5\,a^2\,b^3\,B+2\,b^5\,B-8\,a^5\,C+4\,a^3\,b^2\,C-2\,a\,b^4\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right](b+a\,\text{Cos}[c+d\,x])^2}{\left(a^2-b^2\right)^{5/2}}+$$

$$\left.\left.\frac{a\,b^3\,(-b\,B+2\,a\,C)\,\text{Sin}[c+d\,x]}{a^2-b^2}-\frac{a\,b^2\left(-6\,a^2\,b\,B+3\,b^3\,B+10\,a^3\,C-4\,a\,b^2\,C\right)(b+a\,\text{Cos}[c+d\,x])\,\text{Sin}[c+d\,x]}{\left(a^2-b^2\right)^2}\right)\right)\Big/$$

$$\left(2\,a^3\,d\,(b\,C+(b\,B-a\,C)\,\text{Cos}[c+d\,x])\,(a+b\,\text{Sec}[c+d\,x])^3\right)$$

Incorrect antiderivative:

$$\left\{\frac{a\,b\,B-a^2\,C+b^2\,B\,\text{Sec}[c+d\,x]+b^2\,C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^5},\ x,\ 6,\ 0\right\}$$

$$\frac{(b\,B-a\,C)\,x}{a^4}+\frac{b\left(8\,a^6\,b\,B-8\,a^4\,b^3\,B+7\,a^2\,b^5\,B-2\,b^7\,B-10\,a^7\,C+5\,a^5\,b^2\,C-7\,a^3\,b^4\,C+2\,a\,b^6\,C\right)\text{ArcTanh}\left[\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{a^2-b^2}}\right]}{a^4\left(a^2-b^2\right)^{7/2}\,d}+$$

$$\frac{b^2\,(b\,B-2\,a\,C)\,\text{Tan}[c+d\,x]}{3\,a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^3}+\frac{b^2\left(8\,a^2\,b\,B-3\,b^3\,B-13\,a^3\,C+3\,a\,b^2\,C\right)\text{Tan}[c+d\,x]}{6\,a^2\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\frac{b^2\left(26\,a^4\,b\,B-17\,a^2\,b^3\,B+6\,b^5\,B-37\,a^5\,C+13\,a^3\,b^2\,C-6\,a\,b^4\,C\right)\text{Tan}[c+d\,x]}{6\,a^3\left(a^2-b^2\right)^3\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

$$\frac{1}{24 a^4 d (b C + (b B - a C) \text{Cos}[c + d x]) (a + b \text{Sec}[c + d x])^4} (b + a \text{Cos}[c + d x]) \text{Sec}[c + d x]^3 (b B - a C + b C \text{Sec}[c + d x])$$

$$\Bigg(-\frac{1}{(a^2 - b^2)^{7/2}} 24 b \left(-8 a^6 b B + 8 a^4 b^3 B - 7 a^2 b^5 B + 2 b^7 B + 10 a^7 C - 5 a^5 b^2 C + 7 a^3 b^4 C - 2 a b^6 C\right)$$

$$\text{ArcTanh}\left[\frac{(-a + b) \text{Tan}\left[\frac{1}{2} (c + d x)\right]}{\sqrt{a^2 - b^2}}\right] (b + a \text{Cos}[c + d x])^3 +$$

$$\frac{1}{(a^2 - b^2)^3} \Big(36 a^8 b^2 B c - 84 a^6 b^4 B c + 36 a^4 b^6 B c + 36 a^2 b^8 B c - 24 b^{10} B c - 36 a^9 b c C + 84 a^7 b^3 c C - 36 a^5 b^5 c C -$$

$$36 a^3 b^7 c C + 24 a b^9 c C + 36 a^8 b^2 B d x - 84 a^6 b^4 B d x + 36 a^4 b^6 B d x + 36 a^2 b^8 B d x - 24 b^{10} B d x - 36 a^9 b C d x +$$

$$84 a^7 b^3 C d x - 36 a^5 b^5 C d x - 36 a^3 b^7 C d x + 24 a b^9 C d x - 18 a \left(a^2 - b^2\right)^3 \left(a^2 + 4 b^2\right) (-b B + a C) (c + d x) \text{Cos}[c + d x] -$$

$$36 a^2 b \left(a^2 - b^2\right)^3 (-b B + a C) (c + d x) \text{Cos}[2 (c + d x)] + 6 a^9 b B c \text{Cos}[3 (c + d x)] - 18 a^7 b^3 B c \text{Cos}[3 (c + d x)] +$$

$$18 a^5 b^5 B c \text{Cos}[3 (c + d x)] - 6 a^3 b^7 B c \text{Cos}[3 (c + d x)] - 6 a^{10} c C \text{Cos}[3 (c + d x)] + 18 a^8 b^2 c C \text{Cos}[3 (c + d x)] -$$

$$18 a^6 b^4 c C \text{Cos}[3 (c + d x)] + 6 a^4 b^6 c C \text{Cos}[3 (c + d x)] + 6 a^9 b B d x \text{Cos}[3 (c + d x)] - 18 a^7 b^3 B d x \text{Cos}[3 (c + d x)] +$$

$$18 a^5 b^5 B d x \text{Cos}[3 (c + d x)] - 6 a^3 b^7 B d x \text{Cos}[3 (c + d x)] - 6 a^{10} C d x \text{Cos}[3 (c + d x)] +$$

$$18 a^8 b^2 C d x \text{Cos}[3 (c + d x)] - 18 a^6 b^4 C d x \text{Cos}[3 (c + d x)] + 6 a^4 b^6 C d x \text{Cos}[3 (c + d x)] +$$

$$36 a^7 b^3 B \text{Sin}[c + d x] + 72 a^5 b^5 B \text{Sin}[c + d x] - 57 a^3 b^7 B \text{Sin}[c + d x] + 24 a b^9 B \text{Sin}[c + d x] -$$

$$54 a^8 b^2 C \text{Sin}[c + d x] - 111 a^6 b^4 C \text{Sin}[c + d x] + 39 a^4 b^6 C \text{Sin}[c + d x] - 24 a^2 b^8 C \text{Sin}[c + d x] +$$

$$120 a^6 b^4 B \text{Sin}[2 (c + d x)] - 90 a^4 b^6 B \text{Sin}[2 (c + d x)] + 30 a^2 b^8 B \text{Sin}[2 (c + d x)] - 174 a^7 b^3 C \text{Sin}[2 (c + d x)] +$$

$$84 a^5 b^5 C \text{Sin}[2 (c + d x)] - 30 a^3 b^7 C \text{Sin}[2 (c + d x)] + 36 a^7 b^3 B \text{Sin}[3 (c + d x)] - 32 a^5 b^5 B \text{Sin}[3 (c + d x)] +$$

$$11 a^3 b^7 B \text{Sin}[3 (c + d x)] - 54 a^8 b^2 C \text{Sin}[3 (c + d x)] + 37 a^6 b^4 C \text{Sin}[3 (c + d x)] - 13 a^4 b^6 C \text{Sin}[3 (c + d x)]\Big)\Bigg)$$

Unable to integrate:

$$\left\{\text{Sec}[c + d x]^3 \sqrt{a + b \text{Sec}[c + d x]} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right), x, 9, 0\right\}$$

$$\Bigg(2 (a + b) \left(42 a^2 A b^2 - 189 A b^4 - 24 a^3 b B - 57 a b^3 B + 16 a^4 C + 24 a^2 b^2 C - 147 b^4 C\right)$$

$$\sqrt{1 + \text{Cos}[c + d x]} \sqrt{\frac{b + a \text{Cos}[c + d x]}{(a + b) (1 + \text{Cos}[c + d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c + d x)\right]\right], -\frac{-a + b}{a + b}\right]\Bigg) \Big/$$

$$\left(315 b^4 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + b \text{Sec}[c + d x]}\right) - \frac{1}{315 b^3 d \sqrt{\text{Cos}[c + d x]} \sqrt{a + b \text{Sec}[c + d x]}}$$

$$2 \left(42 a^2 A b^2 - 147 a A b^3 - 189 A b^4 - 24 a^3 b B - 6 a^2 b^2 B - 57 a b^3 B - 75 b^4 B + 16 a^4 C + 4 a^3 b C + 24 a^2 b^2 C - 111 a b^3 C - 147 b^4 C\right)$$

$$\sqrt{1 + \text{Cos}[c + d x]} \sqrt{\frac{b + a \text{Cos}[c + d x]}{(a + b) (1 + \text{Cos}[c + d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2} (c + d x)\right]\right], -\frac{-a + b}{a + b}\right] -$$

$$\frac{2 \left(42 a^2 A b^2 - 189 A b^4 - 24 a^3 b B - 57 a b^3 B + 16 a^4 C + 24 a^2 b^2 C - 147 b^4 C\right) \sqrt{a + b \text{Sec}[c + d x]} \text{Tan}\left[\frac{1}{2} (c + d x)\right]}{315 b^4 d} +$$

$$\frac{2 \left(21 a A b^2 - 12 a^2 b B + 75 b^3 B + 8 a^3 C + 13 a b^2 C\right) \sqrt{a + b \text{Sec}[c + d x]} \text{Tan}[c + d x]}{315 b^3 d} +$$

$$\frac{2 \left(63 A b^2 + 9 a b B - 6 a^2 C + 49 b^2 C\right) \text{Sec}[c + d x] \sqrt{a + b \text{Sec}[c + d x]} \text{Tan}[c + d x]}{315 b^2 d} +$$

$$\frac{2 (9 b B + a C) \text{Sec}[c + d x]^2 \sqrt{a + b \text{Sec}[c + d x]} \text{Tan}[c + d x]}{63 b d} + \frac{2 C \text{Sec}[c + d x]^3 \sqrt{a + b \text{Sec}[c + d x]} \text{Tan}[c + d x]}{9 d}$$

$$\int \text{Sec}[c + d x]^3 \sqrt{a + b \text{Sec}[c + d x]} \left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^2\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\left(2\,(a+b)\,\left(35\,a\,A\,b^2-14\,a^2\,b\,B+63\,b^3\,B+8\,a^3\,C+19\,a\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{105\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,2\,\left(35\,a\,A\,b^2+35\,A\,b^3-14\,a^2\,b\,B+49\,a\,b^2\,B+63\,b^3\,B+8\,a^3\,C+2\,a^2\,b\,C+19\,a\,b^2\,C+25\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]+\frac{2\,\left(35\,a\,A\,b^2-14\,a^2\,b\,B+63\,b^3\,B+8\,a^3\,C+19\,a\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^3\,d}+\frac{2\,\left(35\,A\,b^2+7\,a\,b\,B-4\,a^2\,C+25\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^2\,d}+\frac{2\,(7\,b\,B+a\,C)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,d}$$

$$\int\text{Sec}[c+d\,x]^2\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(15\,A\,b^2+5\,a\,b\,B-2\,a^2\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{15\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\left(2\,\left(15\,a\,A\,b+15\,A\,b^2+5\,a\,b\,B+5\,b^2\,B-2\,a^2\,C+7\,a\,b\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{2\,\left(15\,A\,b^2+5\,a\,b\,B-2\,a^2\,C+9\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^2\,d}+\frac{2\,(5\,b\,B+a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,b\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\int\text{Sec}[c+d\,x]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,(a+b)\,(3\,b\,B+a\,C)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,(3\,a\,A-3\,A\,b-3\,a\,B-3\,b\,B-a\,C-b\,C)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{4\,a\,A\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\ \mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,b\,B+a\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b\,d}+\frac{2\,C\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}[c+d\,x]}{3\,d}$$

$$\int\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\mathrm{Cos}[c+d\,x]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{(a+b)\,(A-2\,C)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A\,b+a\,B-b\,B-a\,C-b\,C)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b+2\,a\,B)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\ \mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{A\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{d}-\frac{(A-2\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\int\mathrm{Cos}[c+d\,x]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,dx$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{(a+b)\,(A\,b+4\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{4\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a\,A-A\,b+4\,b\,B+4\,a\,C-4\,b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A-A\,b^2+4\,a\,b\,B+8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,d}+\frac{(A\,b+4\,a\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a\,d}$$

$$\frac{1}{2}\Bigg(\frac{A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[2\,(c+d\,x)]}{2\,d}+$$

$$\Bigg(\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\Bigg(-a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+8\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+$$

$$8\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,+$$

$$8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,-$$

$$2\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,+$$

$$8\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,+$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,+$$

$$i\,(a-b)\,(A\,b+4\,a\,B)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$2\,i\,(a-b)\,(A\,b+2\,a\,(A+2\,C))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Big/$$

$$\Bigg(2\,a\sqrt{\frac{-a+b}{a+b}}\,d\sqrt{b+a\,\text{Cos}[c+d x]}\sqrt{\text{Sec}[c+d x]}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg)$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\left(16\,a^2\,A-3\,A\,b^2+6\,a\,b\,B+24\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{24\,a^2\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{\left(14\,a\,A\,b-A\,b^2+12\,a^2\,B-6\,a\,b\,B+24\,a\,b\,C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{12\,a\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\Bigg(\left(4\,a^2\,A\,b+A\,b^3+8\,a^3\,B-2\,a\,b^2\,B+8\,a^2\,b\,C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}$$

$$\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\Bigg)\Big/\left(4\,a^2\,d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{(A\,b+6\,a\,B)\,\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{12\,a\,d}+\frac{A\,\text{Cos}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{3\,d}+$$

$$\frac{\left(16\,a^2\,A-3\,A\,b^2+6\,a\,b\,B+24\,a^2\,C\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{24\,a^2\,d}$$

$$\int\text{Cos}[c+d x]^3\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\left(2\,(a+b)\,\left(198\,a^3\,A\,b^2-2706\,a\,A\,b^4-88\,a^4\,b\,B-363\,a^2\,b^3\,B-1617\,b^5\,B+48\,a^5\,C+108\,a^3\,b^2\,C-2088\,a\,b^4\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(3465\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\left(2\,\left(198\,a^3\,A\,b^2-1683\,a^2\,A\,b^3-2706\,a\,A\,b^4-825\,A\,b^5-88\,a^4\,b\,B-22\,a^3\,b^2\,B-363\,a^2\,b^3\,B-2046\,a\,b^4\,B-1617\,b^5\,B+48\,a^5\,C+\right.\right.$$

$$\left.12\,a^4\,b\,C+108\,a^3\,b^2\,C-1269\,a^2\,b^3\,C-2088\,a\,b^4\,C-675\,b^5\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(3465\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{1}{3465\,b^4\,d}\,2\,\left(198\,a^3\,A\,b^2-2706\,a\,A\,b^4-88\,a^4\,b\,B-363\,a^2\,b^3\,B-1617\,b^5\,B+48\,a^5\,C+108\,a^3\,b^2\,C-2088\,a\,b^4\,C\right)$$

$$\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\frac{2\,\left(99\,a^2\,A\,b^2+825\,A\,b^4-44\,a^3\,b\,B+968\,a\,b^3\,B+24\,a^4\,C+57\,a^2\,b^2\,C+675\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3465\,b^3\,d}+$$

$$\frac{2\,\left(792\,a\,A\,b^2+33\,a^2\,b\,B+539\,b^3\,B-18\,a^3\,C+606\,a\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3465\,b^2\,d}+$$

$$\frac{2\,\left(99\,A\,b^2+110\,a\,b\,B+3\,a^2\,C+81\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{693\,b\,d}+$$

$$\frac{2\,(11\,b\,B+3\,a\,C)\,\text{Sec}[c+d\,x]^3\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{99\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{11\,d}$$

$$\int \text{Sec}[c+d\,x]^3\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$-\left(2(a+b)\left(63a^2Ab^2+189Ab^4-18a^3bB+246ab^3B+8a^4C+33a^2b^2C+147b^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(315b^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+\frac{1}{315b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}$$

$$2\left(63a^2Ab^2+252aAb^3+189Ab^4-18a^3bB+153a^2b^2B+246ab^3B+75b^4B+8a^4C+2a^3bC+33a^2b^2C+186ab^3C+147b^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\left(63a^2Ab^2+189Ab^4-18a^3bB+246ab^3B+8a^4C+33a^2b^2C+147b^4C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{315b^3d}+$$

$$\frac{2\left(126aAb^2+9a^2bB+75b^3B-4a^3C+88ab^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{315b^2d}+$$

$$\frac{2\left(63Ab^2+72abB+3a^2C+49b^2C\right)\text{Sec}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{315bd}+$$

$$\frac{2(3bB+aC)\text{Sec}[c+dx]^2\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{21d}+$$

$$\frac{2C\text{Sec}[c+dx]^2(a+b\text{Sec}[c+dx])^{3/2}\text{Tan}[c+dx]}{9d}$$

$$\int\text{Sec}[c+dx]^2(a+b\text{Sec}[c+dx])^{3/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+dx](a+b\text{Sec}[c+dx])^{3/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right),x,8,0\right\}$$

$$-\left(2(a+b)\left(140aAb^2+21a^2bB+63b^3B-6a^3C+82ab^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+\frac{1}{105bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}$$

$$2\left(105a^2Ab+140aAb^2+35Ab^3+21a^2bB+84ab^2B+63b^3B-6a^3C+51a^2bC+82ab^2C+25b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\left(140aAb^2+21a^2bB+63b^3B-6a^3C+82ab^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{105b^2d}+$$

$$\frac{2\left(35Ab^2+42abB+3a^2C+25b^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{105bd}+$$

$$\frac{2(7bB+3aC)\text{Sec}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{35d}+$$

$$\frac{2C\text{Sec}[c+dx](a+b\text{Sec}[c+dx])^{3/2}\text{Tan}[c+dx]}{7d}$$

$$\int \text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$-\frac{2\,(a+b)\,\left(15\,A\,b^2+20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{15\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\,\left(15\,a^2\,A-30\,a\,A\,b-15\,A\,b^2-15\,a^2\,B-20\,a\,b\,B-5\,b^2\,B-3\,a^2\,C-12\,a\,b\,C-9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{4\,a^2\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(15\,A\,b^2+20\,a\,b\,B+3\,a^2\,C+9\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b\,d}+$$

$$\frac{2\,(5\,b\,B+3\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,d}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{5\,d}$$

$$\int (a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\,(3\,a\,A-6\,b\,B-8\,a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\,\left(6\,a\,A\,b-3\,A\,b^2+3\,a^2\,B-6\,a\,b\,B-3\,b^2\,B-3\,a^2\,C-4\,a\,b\,C-b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,a\,(3\,A\,b+2\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{d}-\frac{(3\,a\,A-6\,b\,B-8\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,d}-$$

$$\frac{b\,(3\,A-2\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\int \text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Incorrect antiderivative:

$$\left\{\text{Cos}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{(a+b)\,(5\,A\,b+4\,a\,B-8\,b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(\left(2\,a^2\,A-a\,A\,b+4\,A\,b^2+8\,a\,b\,B-4\,b^2\,B+4\,a^2\,C-8\,a\,b\,C-4\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{\left(4\,a^2\,A+3\,A\,b^2+12\,a\,b\,B+8\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(3\,A\,b+4\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d}+\frac{A\,\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d}-$$

$$\frac{(5\,A\,b+4\,a\,B-8\,b\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,d}$$

$$\frac{1}{2}\left(\frac{\text{Cos}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(4\,b\,C\,\text{Sin}[c+d\,x]+\frac{1}{2}\,a\,A\,\text{Sin}[2\,(c+d\,x)]\right)}{d\,(b+a\,\text{Cos}[c+d\,x])}-\right.$$

$$\left((a+b\,\text{Sec}[c+d\,x])^{3/2}\left(5\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+5\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.\right.$$

$$4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-8\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$8\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-10\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-8\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$16\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+5\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-5\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-8\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$8 b^2 \sqrt{\frac{-a+b}{a+b}}\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 8 i a^2 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$6 i A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24 i a b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16 i a^2 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$8 i a^2 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$6 i A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24 i a b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(5\,A\,b+4\,a\,B-8\,b\,C)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$2\,i\,(a-b)\,(b\,(A+4\,B-4\,C)+2\,a\,(A+2\,C))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(2\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{3/2}\,\text{Sec}[c+d x]^{3/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right.$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)\right)$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),\,x,\,9,\,0\right\}$$

$$\frac{(a+b)\left(16a^2A+3Ab^2+30abB+24a^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{24ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(\left(26aAb-7Ab^2+12a^2B-6abB+24b^2B+48abC-24b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(12d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\left(\left(12a^2Ab-Ab^3+8a^3B+6ab^2B+24a^2bC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(4ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{(Ab+2aB)\,\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{4d}+\frac{A\,\text{Cos}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{3d}+$$

$$\frac{\left(16a^2A+3Ab^2+30abB+24a^2C\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{24ad}$$

$$\int\text{Cos}[c+dx]^3(a+b\,\text{Sec}[c+dx])^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx]^4(a+b\,\text{Sec}[c+dx])^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),x,10,0\right\}$$

$$\left((a+b)\left(156a^2Ab-9Ab^3+128a^3B+24ab^2B+240a^2bC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(192a^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-\frac{1}{96ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}\left(72a^3A-36a^2Ab+114aAb^2-3Ab^3+208a^2bB-56ab^2B+96a^3C-48a^2bC+192ab^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+\left(\left(48a^4A+24a^2Ab^2+3Ab^4+96a^3bB-8ab^3B+64a^4C+48a^2b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(32a^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+\frac{\left(36a^2A+3Ab^2+56abB+48a^2C\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{96ad}+\frac{(3Ab+8aB)\,\text{Cos}[c+dx]^2\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{24d}+\frac{A\,\text{Cos}[c+dx]^3(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{4d}+\frac{\left(156a^2Ab-9Ab^3+128a^3B+24ab^2B+240a^2bC\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{192a^2d}$$

$$\int\text{Cos}[c+dx]^4(a+b\,\text{Sec}[c+dx])^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+dx]^2(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 10,\ 0\right\}$$

$$-\left(2\,(a+b)\,\left(495\,a^3\,A\,b^2+4785\,a\,A\,b^4-110\,a^4\,b\,B+3069\,a^2\,b^3\,B+1617\,b^5\,B+40\,a^5\,C+255\,a^3\,b^2\,C+3705\,a\,b^4\,C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(3465\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\left(2\,\left(495\,a^3\,A\,b^2+4455\,a^2\,A\,b^3+4785\,a\,A\,b^4+825\,A\,b^5-110\,a^4\,b\,B+\right.\right.$$

$$\left.1705\,a^3\,b^2\,B+3069\,a^2\,b^3\,B+2871\,a\,b^4\,B+1617\,b^5\,B+40\,a^5\,C+10\,a^4\,b\,C+255\,a^3\,b^2\,C+3315\,a^2\,b^3\,C+3705\,a\,b^4\,C+675\,b^5\,C\right)$$

$$\left.\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(3465\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+\frac{1}{3465\,b^3\,d}$$

$$2\,\left(495\,a^3\,A\,b^2+4785\,a\,A\,b^4-110\,a^4\,b\,B+3069\,a^2\,b^3\,B+1617\,b^5\,B+40\,a^5\,C+255\,a^3\,b^2\,C+3705\,a\,b^4\,C\right)$$

$$\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$\frac{2\,\left(1485\,a^2\,A\,b^2+825\,A\,b^4+55\,a^3\,b\,B+1793\,a\,b^3\,B-20\,a^4\,C+1025\,a^2\,b^2\,C+675\,b^4\,C\right)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3465\,b^2\,d}+$$

$$\frac{2\,\left(1485\,a\,A\,b^2+825\,a^2\,b\,B+539\,b^3\,B+15\,a^3\,C+1145\,a\,b^2\,C\right)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3465\,b\,d}+$$

$$\frac{2\,\left(33\,A\,b^2+44\,a\,b\,B+5\,a^2\,C+27\,b^2\,C\right)\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{231\,d}+$$

$$\frac{2\,(11\,b\,B+5\,a\,C)\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Tan}[c+d\,x]}{99\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Tan}[c+d\,x]}{11\,d}$$

$$\int \text{Sec}[c+d\,x]^2\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,dx$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$-\left(2(a+b)\left(483a^2Ab^2+189Ab^4+45a^3bB+435ab^3B-10a^4C+279a^2b^2C+147b^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(315b^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+\frac{1}{315bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}$$

$$2\left(315a^3Ab+483a^2Ab^2+357aAb^3+189Ab^4+45a^3bB+405a^2b^2B+435ab^3B+75b^4B-10a^4C+155a^3bC+279a^2b^2C+261ab^3C+147b^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{2\left(483a^2Ab^2+189Ab^4+45a^3bB+435ab^3B-10a^4C+279a^2b^2C+147b^4C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{315b^2d}+$$

$$\frac{2\left(231aAb^2+135a^2bB+75b^3B+5a^3C+163ab^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{315bd}+$$

$$\frac{2\left(63Ab^2+90abB+15a^2C+49b^2C\right)\text{Sec}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{315d}+$$

$$\frac{2(9bB+5aC)\text{Sec}[c+dx](a+b\text{Sec}[c+dx])^{3/2}\text{Tan}[c+dx]}{63d}+$$

$$\frac{2C\text{Sec}[c+dx](a+b\text{Sec}[c+dx])^{5/2}\text{Tan}[c+dx]}{9d}$$

$$\int\text{Sec}[c+dx](a+b\text{Sec}[c+dx])^{5/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{(a+b\text{Sec}[c+dx])^{5/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right),x,10,0\right\}$$

$$-\left(2(a+b)\left(245aAb^2+161a^2bB+63b^3B+15a^3C+145ab^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105bd\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)-\frac{1}{105d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}$$

$$2\left(105a^3A-315a^2Ab-245aAb^2-35Ab^3-105a^3B-161a^2bB-119ab^2B-63b^3B-15a^3C-135a^2bC-145ab^2C-25b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{4a^3A\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}+$$

$$\frac{2\left(245aAb^2+161a^2bB+63b^3B+15a^3C+145ab^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{105bd}+$$

$$\frac{2\left(35Ab^2+56abB+15a^2C+25b^2C\right)\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{105d}+$$

$$\frac{2(7bB+5aC)(a+b\text{Sec}[c+dx])^{3/2}\text{Tan}[c+dx]}{35d}+\frac{2C(a+b\text{Sec}[c+dx])^{5/2}\text{Tan}[c+dx]}{7d}$$

$$\int (a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\left((a+b)\left(15\,a^2\,A-30\,A\,b^2-70\,a\,b\,B-46\,a^2\,C-18\,b^2\,C\right)\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)-\frac{1}{15\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$2\left(45\,a^2\,A\,b-45\,a\,A\,b^2-15\,A\,b^3+15\,a^3\,B-45\,a^2\,b\,B-35\,a\,b^2\,B-5\,b^3\,B-15\,a^3\,C-23\,a^2\,b\,C-17\,a\,b^2\,C-9\,b^3\,C\right)$$

$$\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]+$$

$$\frac{2\,a^2\,(5\,A\,b+2\,a\,B)\,\sqrt{1+\mathrm{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\,\mathrm{EllipticPi}\left[-1,\ \mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{A\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{d}-$$

$$\frac{\left(15\,a^2\,A-30\,A\,b^2-70\,a\,b\,B-46\,a^2\,C-18\,b^2\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,d}-$$

$$\frac{b\,(15\,a\,A-10\,b\,B-16\,a\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Tan}[c+d\,x]}{15\,d}-\frac{b\,(5\,A-2\,C)\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Tan}[c+d\,x]}{5\,d}$$

$$\int \mathrm{Cos}[c+d\,x]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)dx$$

Incorrect antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{(a+b)\left(27aAb+12a^2B-24b^2B-56abC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{12d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{1}{6d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}$$

$$\left(6a^3A-3a^2Ab+36aAb^2-12Ab^3+36a^2bB-36ab^2B-12b^3B+12a^3C-36a^2bC-28ab^2C-4b^3C\right)$$

$$\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{a\left(4a^2A+15Ab^2+20abB+8a^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{(5Ab+4aB)(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{4d}+\frac{A\,\text{Cos}[c+dx](a+b\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{2d}-$$

$$\frac{\left(27aAb+12a^2B-24b^2B-56abC\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{12d}-$$

$$\frac{b(21Ab+12aB-8bC)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}[c+dx]}{12d}$$

$$\frac{1}{2}\Bigg(\Bigg((a+b\,\text{Sec}[c+dx])^{5/2}$$

$$\Bigg(-27a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-27aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-12a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]-$$

$$12a^2b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+24ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+24b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+$$

$$56a^2b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+56ab^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]+54a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3+$$

$$24a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-48ab^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-112a^2b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3-$$

$$27a^2Ab\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+27aAb^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5-12a^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^5+$$

$$12 a^2 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 24 a b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$24 b^3 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 56 a^2 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 56 a b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 +$$

$$24 i a^3 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$90 i a A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$120 i a^2 b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$48 i a^3 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24 i a^3 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$90 i a A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$120\,i\,a^2\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$48\,i\,a^3\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\left(12\,a^2\,B-24\,b^2\,B+a\,b\,(27\,A-56\,C)\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-2\,i\,(a-b)$$

$$\left(3\,a\,b\,(A+8\,B-8\,C)+4\,b^2\,(3\,A-3\,B+C)+6\,a^2\,(A+2\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(6\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,\text{Sec}[c+d x]^{5/2}\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)+$$

$$\frac{\text{Cos}[c+d x]^2\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(\frac{4}{3}\,b\,(3\,b\,B+7\,a\,C)\,\text{Sin}[c+d x]+\frac{1}{2}\,a^2\,A\,\text{Sin}[2\,(c+d x)]+\frac{4}{3}\,b^2\,C\,\text{Tan}[c+d x]\right)}{d\,(b+a\,\text{Cos}[c+d x])^2}\Bigg)$$

Unable to integrate:

$$\left\{\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),\,x,\,10,\,0\right\}$$

$$\left((a+b)\left(16a^2A+33Ab^2+54abB+24a^2C-48b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(24d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-\frac{1}{12d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}\left(38a^2Ab-13aAb^2+24Ab^3+12a^3B-6a^2bB+72ab^2B-24b^3B+72a^2bC-72ab^2C-24b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+\left(\left(20a^2Ab+5Ab^3+8a^3B+30ab^2B+40a^2bC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(4d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+\frac{\left(16a^2A+15Ab^2+42abB+24a^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{24d}+\frac{(5Ab+6aB)\,\text{Cos}[c+dx]\,(a+b\,\text{Sec}[c+dx])^{3/2}\,\text{Sin}[c+dx]}{12d}+\frac{A\,\text{Cos}[c+dx]^2\,(a+b\,\text{Sec}[c+dx])^{5/2}\,\text{Sin}[c+dx]}{3d}-\frac{\left(16a^2A+33Ab^2+54abB+24a^2C-48b^2C\right)\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{24d}$$

$$\int \text{Cos}[c+dx]^3\,(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx]^4\,(a+b\,\text{Sec}[c+dx])^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 10,\ 0\right\}$$

$$\left((a+b)\left(284a^2Ab+15Ab^3+128a^3B+264ab^2B+432a^2bC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(192ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)-\frac{1}{96d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}}\left(72a^3A-36a^2Ab+322aAb^2-59Ab^3+304a^2bB-104ab^2B+192b^3B+96a^3C-48a^2bC+576ab^2C-192b^3C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]+\left(\left(48a^4A+120a^2Ab^2-5Ab^4+160a^3bB+40ab^3B+64a^4C+240a^2b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(32ad\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\text{Sec}[c+dx]}\right)+\frac{\left(12a^2A+5Ab^2+24abB+16a^2C\right)\text{Cos}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{32d}+\frac{(5Ab+8aB)\text{Cos}[c+dx]^2(a+b\text{Sec}[c+dx])^{3/2}\text{Sin}[c+dx]}{24d}+\frac{A\text{Cos}[c+dx]^3(a+b\text{Sec}[c+dx])^{5/2}\text{Sin}[c+dx]}{4d}+\frac{\left(284a^2Ab+15Ab^3+128a^3B+264ab^2B+432a^2bC\right)\text{Cos}[c+dx]\sqrt{a+b\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{192ad}$$

$$\int\text{Cos}[c+dx]^4(a+b\text{Sec}[c+dx])^{5/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)dx$$

Unable to integrate:

$$\left\{\text{Cos}[c+dx]^5(a+b\text{Sec}[c+dx])^{5/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right),x,11,0\right\}$$

$$\left((a+b)\left(1024 a^4 A+1692 a^2 A b^2-45 A b^4+2840 a^3 b B+150 a b^3 B+1280 a^4 C+2640 a^2 b^2 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(1920 a^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\right)-\frac{1}{960 a d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}$$

$$\left(2312 a^3 A b-772 a^2 A b^2+1146 a A b^3-15 A b^4+720 a^4 B-360 a^3 b B+3220 a^2 b^2 B-590 a b^3 B+3040 a^3 b C-1040 a^2 b^2 C+1920 a b^3 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{1}{64 a^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}}\left(240 a^4 A b+40 a^2 A b^3+3 A b^5+96 a^5 B+240 a^3 b^2 B-10 a b^4 B+320 a^4 b C+80 a^2 b^3 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]+$$

$$\frac{\left(772 a^2 A b+15 A b^3+360 a^3 B+590 a b^2 B+1040 a^2 b C\right)\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{960 a d}+$$

$$\frac{\left(64 a^2 A+15 A b^2+110 a b B+80 a^2 C\right)\text{Cos}[c+d x]^2\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{240 d}+$$

$$\frac{(A b+2 a B)\,\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{3/2}\,\text{Sin}[c+d x]}{8 d}+$$

$$\frac{A\,\text{Cos}[c+d x]^4\,(a+b\,\text{Sec}[c+d x])^{5/2}\,\text{Sin}[c+d x]}{5 d}+\frac{1}{1920 a^2 d}$$

$$\left(1024 a^4 A+1692 a^2 A b^2-45 A b^4+2840 a^3 b B+150 a b^3 B+1280 a^4 C+2640 a^2 b^2 C\right)$$

$$\text{Cos}[c+d x]\sqrt{a+b\,\text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\int\text{Cos}[c+d x]^5\,(a+b\,\text{Sec}[c+d x])^{5/2}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d x]^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d x]}},\ x,\ 8,\ 0\right\}$$

$$\left(2\,(a+b)\,\left(70\,a\,A\,b^2-56\,a^2\,b\,B-63\,b^3\,B+48\,a^3\,C+44\,a\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(105\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-\frac{1}{105\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(70\,a\,A\,b^2-35\,A\,b^3-56\,a^2\,b\,B-14\,a\,b^2\,B-63\,b^3\,B+48\,a^3\,C+12\,a^2\,b\,C+44\,a\,b^2\,C-25\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]-$$

$$\frac{2\,\left(70\,a\,A\,b^2-56\,a^2\,b\,B-63\,b^3\,B+48\,a^3\,C+44\,a\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{105\,b^4\,d}+$$

$$\frac{2\,\left(35\,A\,b^2-28\,a\,b\,B+24\,a^2\,C+25\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{105\,b^3\,d}+$$

$$\frac{2\,(7\,b\,B-6\,a\,C)\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{35\,b^2\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{7\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\,\left(15\,A\,b^2-10\,a\,b\,B+8\,a^2\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{15\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\,\left(15\,A\,b^2-10\,a\,b\,B+5\,b^2\,B+8\,a^2\,C+2\,a\,b\,C+9\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\,\left(15\,A\,b^2-10\,a\,b\,B+8\,a^2\,C+9\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^3\,d}+\frac{2\,(5\,b\,B-4\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{15\,b^2\,d}+$$

$$\frac{2\,C\,\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{5\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,6,\,0\right\}$$

$$-\frac{2\,(a+b)\,(3\,b\,B-2\,a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,A\,b+3\,b\,B-2\,a\,C+b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,b\,B-2\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b^2\,d}+\frac{2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,b\,d}$$

$$\int\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A-B-C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b\,d}$$

$$\int\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$\frac{A\,(a+b)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(B-C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A\,b-2\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,d}$$

$$\int \frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$-\frac{(a+b)\,(3\,A\,b-4\,a\,B)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{4\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{(2\,a\,A-A\,b+4\,a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(4\,a^2\,A+3\,A\,b^2-4\,a\,b\,B+8\,a^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{2\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{A\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{2\,a\,d}-\frac{(3\,A\,b-4\,a\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{4\,a^2\,d}$$

$$\frac{A\,(b+a\,\text{Cos}[c+d\,x])\,\text{Sec}[c+d\,x]\,\text{Sin}[2\,(c+d\,x)]}{4\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right.$$

$$\left(-3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+\right.$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+6\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-8\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$3\,a\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+3\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+4\,a^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$4\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+8\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-8\,i\,a^2\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$6\,i\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$8\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,(-3\,A\,b+4\,a\,B)\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\;+$$

$$2\,i\,\left(3\,A\,b^2-a\,b\,(A+4\,B)+2\,a^2\,(A+2\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(4\,a^2\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\Bigg)$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,9,\,0\right\}$$

$$\frac{(a+b)\,\left(16\,a^2\,A+15\,A\,b^2-18\,a\,b\,B+24\,a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{24\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(2\,a\,A\,b+5\,A\,b^2+12\,a^2\,B-6\,a\,b\,B\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{12\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\Bigg(\left(4\,a^2\,A\,b+5\,A\,b^3-8\,a^3\,B-6\,a\,b^2\,B+8\,a^2\,b\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}$$

$$\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\Bigg)\Bigg/\left(4\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{(5\,A\,b-6\,a\,B)\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{12\,a^2\,d}+\frac{A\,\text{Cos}[c+d\,x]^2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a\,d}+$$

$$\frac{\left(16\,a^2\,A+15\,A\,b^2-18\,a\,b\,B+24\,a^2\,C\right)\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{24\,a^3\,d}$$

$$\int\frac{\text{Cos}[c+d\,x]^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$-\left(2\left(30\,a^2\,A\,b^2-15\,A\,b^4-40\,a^3\,b\,B+25\,a\,b^3\,B+48\,a^4\,C-24\,a^2\,b^2\,C-9\,b^4\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(15\,(a-b)\,b^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(2\left(30\,a\,A\,b^2-15\,A\,b^3-40\,a^2\,b\,B+30\,a\,b^2\,B-5\,b^3\,B+48\,a^3\,C-36\,a^2\,b\,C+12\,a\,b^2\,C-9\,b^3\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\ \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(15\,(a-b)\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\left(30\,a^2\,A\,b^2-15\,A\,b^4-40\,a^3\,b\,B+25\,a\,b^3\,B+48\,a^4\,C-24\,a^2\,b^2\,C-9\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{15\,b^4\left(a^2-b^2\right)d}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]^2\,\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(15\,a\,A\,b^2-20\,a^2\,b\,B+5\,b^3\,B+24\,a^3\,C-9\,a\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Tan}[c+d\,x]}{15\,b^3\left(a^2-b^2\right)d}+$$

$$\frac{2\left(5\,A\,b^2-5\,a\,b\,B+6\,a^2\,C-b^2\,C\right)\text{Sec}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Tan}[c+d\,x]}{5\,b^2\left(a^2-b^2\right)d}$$

$$\int\frac{\text{Sec}[c+d\,x]^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(3\,a\,A\,b^2-6\,a^2\,b\,B+3\,b^3\,B+8\,a^3\,C-5\,a\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\ \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{3\,(a-b)\,b^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\left(3\,A\,b^2-6\,a\,b\,B+3\,b^2\,B+8\,a^2\,C-6\,a\,b\,C+b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,(a-b)\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{2\left(3\,a\,A\,b^2-6\,a^2\,b\,B+3\,b^3\,B+8\,a^3\,C-5\,a\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,b^3\left(a^2-b^2\right)d}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\left(3\,A\,b^2-3\,a\,b\,B+4\,a^2\,C-b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Tan}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)d}$$

$$\int\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\left(A\,b^2-a\,b\,B+2\,a^2\,C-b^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{(a-b)\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b-b\,B+2\,a\,C-b\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{(a-b)\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(A\,b^2-a\,b\,B+2\,a^2\,C-b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{b^2\left(a^2-b^2\right)d}-\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Tan}[c+d\,x]}{b\left(a^2-b^2\right)d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\int\frac{\text{Sec}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{a\,(a-b)\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A-B+C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,A\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\ \text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]}{a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{a\,b\,(a+b)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\int\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+d\,x]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(a^2 A-3 A b^2+2 a b B-2 a^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2(a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2(A b-a B+a C) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a(a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}-$$

$$\frac{2(3 A b-2 a B) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d \sqrt{a+b \text{Sec}[c+d x]}}+\frac{\left(a^2 A-3 A b^2+2 a b B-2 a^2 C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{a^2\left(a^2-b^2\right) d}$$

$$\int \frac{\text{Cos}[c+d x]\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{3/2}} \, dx$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^2\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^{3/2}}, x, 9, 0\right\}$$

$$-\left(\left(7 a^2 A b-15 A b^3-4 a^3 B+12 a b^2 B-8 a^2 b C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right) \Big/ \left(4 a^3(a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\frac{\left(2 a^2 A-3 a A b+5 A b^2-4 a b B+4 a^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^2(a-b) d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(4 a^2 A+15 A b^2-12 a b B+8 a^2 C\right) \sqrt{1+\text{Cos}[c+d x]} \sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}} \text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^3 d \sqrt{\text{Cos}[c+d x]} \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2-a b B+a^2 C\right) \text{Cos}[c+d x] \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d \sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(a^2 A-5 A b^2+4 a b B-4 a^2 C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Sin}[c+d x]}{2 a^2\left(a^2-b^2\right) d}-$$

$$\frac{\left(7 a^2 A b-15 A b^3-4 a^3 B+12 a b^2 B-8 a^2 b C\right) \text{Cos}[c+d x] \sqrt{a+b \text{Sec}[c+d x]} \text{Tan}\left[\frac{1}{2}(c+d x)\right]}{4 a^3\left(a^2-b^2\right) d}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])^2\,\mathrm{Sec}[c+d\,x]^2\left(\frac{2\,b\,(A\,b^2-a\,b\,B+a^2\,C)\,\mathrm{Sin}[c+d\,x]}{a^3\,(-a^2+b^2)}-\frac{2\,(A\,b^4\,\mathrm{Sin}[c+d\,x]-a\,b^3\,B\,\mathrm{Sin}[c+d\,x]+a^2\,b^2\,C\,\mathrm{Sin}[c+d\,x])}{a^3\,(-a^2+b^2)\,(b+a\,\mathrm{Cos}[c+d\,x])}+\frac{A\,\mathrm{Sin}[2\,(c+d\,x)]}{4\,a^2}\right)}{d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\Bigg(-\frac{a\,A}{2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{A\,b^2}{2\,a\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,B}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{a\,C}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{5\,A\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{5\,A\,b^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,a^2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{a\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{b^2\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{7\,A\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{15\,A\,b^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,a^2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{a\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{3\,b^2\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a\,(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{b\,C\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(-a^2+b^2)\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\Bigg)$$

$$\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(-7\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-7\,a^2\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+15\,a\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$15\,A\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a^4\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+4\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-$$

$$12\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-12\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+8\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$8\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+14\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-30\,a\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$8\,a^4\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+24\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-16\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-$$

$$7\,a^3\,A\,b\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+7\,a^2\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+15\,a\,A\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 4 a^4 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 4 a^3 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 12 a b^3 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 8 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 8 i a^4 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$22 i a^2 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 30 i A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24 i a^3 b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24 i a b^3 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 16 i a^4 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16 i a^2 b^2 C \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i(a-b)\left(15 A b^3+4 a^3 B-12 a b^2 B+a^2(-7 A b+8 b C)\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+2 i(a-b)$$

$$\left(15 A b^3+2 a b^2(5 A-6 B)+2 a^3(A+2 C)+a^2 b(A-8 B+8 C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(4 a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d x])^{3/2}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)$$

$$\Bigg(-\Bigg(\left(a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]-b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\Bigg(-7 a^3 A b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-7 a^2 A b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+15 a A b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 4 a^4 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 4 a^3 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] -$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] - 12 a b^3 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 8 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] +$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + 14 a^3 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 30 a A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$8 a^4 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 24 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 16 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 4 a^4 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 4 a^3 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 12 a b^3 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 8 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 8 i a^4 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$22 i a^2 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 30 i A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24 i a^3 b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-24\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+16\,i\,a^2\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$24\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\, (a-b)\, \left(15\, A\, b^3+4\, a^3\, B-12\, a\, b^2\, B+a^2\, (-7\, A\, b+8\, b\, C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 2\, i\, (a-b)$$

$$\left(15\, A\, b^3+2\, a\, b^2\, (5\, A-6\, B)+2\, a^3\, (A+2\, C)+a^2\, b\, (A-8\, B+8\, C)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg) \Bigg/$$

$$\left(4\, a^3 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right) \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)^2\right) -$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left(-7 a^3 A b \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+15 a A b^3 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+4 a^4 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+4 a^3 b \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-12 a b^3 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+8 a^3 b \sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+14 a^3 A b \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-30 a A b^3 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$8 a^4 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3+24 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-16 a^3 b \sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$7 a^3 A b \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+15 a A b^3 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+4 a^4 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-4 a^3 b \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+12 a b^3 \sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5+8 a^3 b \sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^5-8 i a^4 A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22 i a^2 A b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+30 i A b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-24\,i\,a\,b^3\,B\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+16\,i\,a^2\,b^2\,C\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a^4\,A\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\text{EllipticPi}\Big[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Big],\ \frac{a+b}{a-b}\Big]\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\, i\, a^3\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\, (a-b)\, \left(15\, A\, b^3+4\, a^3\, B-12\, a\, b^2\, B+a^2\, (-7\, A\, b+8\, b\, C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 2\, i\, (a-b)$$

$$\left(15\, A\, b^3+2\, a\, b^2\, (5\, A-6\, B)+2\, a^3\, (A+2\, C)+a^2\, b\, (A-8\, B+8\, C)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg/$$

$$\left(8 a^3 \sqrt{\frac{-a+b}{a+b}} \left(a^2-b^2\right) \left(-1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]\right)^2 \sqrt{\frac{1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}\right.$$

$$\left.\left(a \left(-1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)-b \left(1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2\right)\right)\right)-$$

$$\left(\text{Sec}\left[\frac{1}{2} (c+d x)\right]^2 \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2} (c+d x)\right]^2}}\right.$$

$$\left(-7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]-7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+\right.$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]+4 a^4 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]+4 a^3 b \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]-$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]-12 a b^3 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]+8 a^3 b \sqrt{\frac{-a+b}{a+b}} C\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]+$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]+14 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-30 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-$$

$$8 a^4 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^3+24 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-16 a^3 b \sqrt{\frac{-a+b}{a+b}} C\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^3-$$

$$7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^5+7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^5+15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^5-$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]^5+4 a^4 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5-4 a^3 b \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5-$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5+12 a b^3 \sqrt{\frac{-a+b}{a+b}} B\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5+8 a^3 b \sqrt{\frac{-a+b}{a+b}} C\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5-$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C\,\text{Tan}\left[\frac{1}{2} (c+d x)\right]^5-8 i a^4 A\,\text{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \text{Tan}\left[\frac{1}{2} (c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22\,i\,a^2 A b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+30\,i\,A b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3 b B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-24\,i\,a b^3 B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^4 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+16\,i\,a^2 b^2 C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a^4 A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22\, i\, a^2 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$30\, i\, A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24\, i\, a^3 b B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24\, i\, a b^3 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2 b^2 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\,(a-b)\left(15 A b^3+4 a^3 B-12 a b^2 B+a^2(-7 A b+8 b C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+2\,i\,(a-b)$$

$$\left(15\,A\,b^3+2\,a\,b^2\,(5\,A-6\,B)+2\,a^3\,(A+2\,C)+a^2\,b\,(A-8\,B+8\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(8\,a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)^2\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\left(\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}+\right.\right.$$

$$\left.\frac{\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)$$

$$\Bigg(-7\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-7\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+15\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]-12\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+8\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$8\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]+14\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-30\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-$$

$$8 a^4 \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 + 24 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 - 16 a^3 b \sqrt{\frac{-a+b}{a+b}}\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^3 -$$

$$7 a^3 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 7 a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 15 a A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$15 A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 4 a^4 \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 4 a^3 b \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$12 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 12 a b^3 \sqrt{\frac{-a+b}{a+b}}\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 + 8 a^3 b \sqrt{\frac{-a+b}{a+b}}\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 -$$

$$8 a^2 b^2 \sqrt{\frac{-a+b}{a+b}}\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^5 - 8 i a^4 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$22 i a^2 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$30 i A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24 i a^3 b B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24 i a b^3 B \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a^4\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$24\, i\, a\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\, (a-b)\, \left(15\, A\, b^3+4\, a^3\, B-12\, a\, b^2\, B+a^2\, (-7\, A\, b+8\, b\, C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} + 2\, i\, (a-b)$$

$$\left(15\, A\, b^3+2\, a\, b^2\, (5\, A-6\, B)+2\, a^3\, (A+2\, C)+a^2\, b\, (A-8\, B+8\, C)\right) \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\left.\frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg) \Bigg/$$

$$\left(8\, a^3 \sqrt{\frac{-a+b}{a+b}}\, \left(a^2-b^2\right) \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)^{3/2}\right.$$

$$\left.\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right) +$$

$$\left(\left(\frac{-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}-\right.\right.$$

$$\left.\frac{\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)}{\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^2}\right)$$

$$\left(-7\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-7\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+15\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+\right.$$

$$15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]-12\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+8\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+$$

$$8\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+14\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-30\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-$$

$$8\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+24\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-16\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-$$

$$7\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+7\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+15\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+4\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+12\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5+8\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-$$

$$8\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^5-8\,i\,a^4\,A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$22\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$30\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$8\,i\,a^4\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$22\, i\, a^2 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$30\, i\, A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$24\, i\, a^3 b B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$24\, i\, a b^3 B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$16\, i\, a^4 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$16\, i\, a^2 b^2 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\,(a-b)\left(15 A b^3+4 a^3 B-12 a b^2 B+a^2(-7 A b+8 b C)\right) \text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+2\,i\,(a-b)$$

$$\left(15\,A\,b^3+2\,a\,b^2\,(5\,A-6\,B)+2\,a^3\,(A+2\,C)+a^2\,b\,(A-8\,B+8\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\right.$$

$$\left.\left.\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg)\Bigg/$$

$$\left(8\,a^3\sqrt{\frac{-a+b}{a+b}}\left(a^2-b^2\right)\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{\frac{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-\frac{7}{2}a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-\right.\right.$$

$$\frac{7}{2}a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+\frac{15}{2}a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$\frac{15}{2}A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+2\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+2\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$6\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2-6\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+4\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$4\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2+21\,a^3\,A\,b\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-$$

$$45\,a\,A\,b^3\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2-12\,a^4\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+$$

$$36 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 24 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$\frac{35}{2} a^3 A b \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + \frac{35}{2} a^2 A b^2 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$\frac{75}{2} a A b^3 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - \frac{75}{2} A b^4 \sqrt{\frac{-a+b}{a+b}} \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$10 a^4 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 10 a^3 b \sqrt{\frac{-a+b}{a+b}} B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$30 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 30 a b^3 \sqrt{\frac{-a+b}{a+b}} B \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$20 a^3 b \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 20 a^2 b^2 \sqrt{\frac{-a+b}{a+b}} C \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$\left(4 i a^4 A \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) -$$

$$\left(11 i a^2 A b^2 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i \operatorname{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left((a+b) \sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) + \left(15 i A b^4 \operatorname{EllipticPi}\left[-\frac{a+b}{a-b}, i\right.\right.$$

$$\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(12\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\right.$$

$$\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-\left(12\,i\,a\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\right.\right.$$

$$\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(8\,i\,a^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+\left(8\,i\,a^2\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\ i\right.\right.$$

$$\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/\Bigg((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)-$$

$$\Bigg(4\,i\,a^4\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\Bigg((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)-$$

$$\Bigg(11\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\Bigg((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)+$$

$$\Bigg(15\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(-a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\Bigg((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)+$$

$$\Bigg(12\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(12\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(8\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(8\,i\,a^2\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg/$$

$$\left((a+b)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)-$$

$$\left(i\,(a-b)\left(15\,A\,b^3+4\,a^3\,B-12\,a\,b^2\,B+a^2\,(-7\,A\,b+8\,b\,C)\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(-a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\left.\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\Big/\left(2\,(a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\left(i\,(a-b)\left(15\,A\,b^3+2\,a\,b^2\,(5\,A-6\,B)+2\,a^3\,(A+2\,C)+a^2\,b\,(A-8\,B+8\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\right.\right.\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\left(-a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\Big/\left((a+b)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}4\,i\,a^4\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$11\,i\,a^2\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$15\,i\,A\,b^4\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$12\,i\,a^3\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$12\,i\,a\,b^3\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$8\,i\,a^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$8\,i\,a^2\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$4\,i\,a^4\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$11\,i\,a^2\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$15\,i\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$12\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$12\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$8\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - \frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$8\,i\,a^2 b^2 C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^3 \sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$i\,(a-b)\left(15 A b^3+4 a^3 B-12 a b^2 B+a^2(-7 A b+8 b C)\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$2\,i\,(a-b)\left(15 A b^3+2 a b^2(5 A-6 B)+2 a^3(A+2 C)+a^2 b(A-8 B+8 C)\right)$$

$$\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$8\,i\,a^4 A\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$22\,i\,a^2 A b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$30\,i\,A b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b}, i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$24\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$24\,i\,a\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$16\,i\,a^4\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$16\,i\,a^2\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+\frac{1}{2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$i\,(a-b)\left(15\,A\,b^3+4\,a^3\,B-12\,a\,b^2\,B+a^2\,(-7\,A\,b+8\,b\,C)\right)\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$\frac{1}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\,i\,(a-b)\left(15\,A\,b^3+2\,a\,b^2\,(5\,A-6\,B)+2\,a^3\,(A+2\,C)+a^2\,b\,(A-8\,B+8\,C)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$\left((a-b)\sqrt{\frac{-a+b}{a+b}}\left(15\,A\,b^3+2\,a\,b^2(5\,A-6\,B)+2\,a^3(A+2\,C)+a^2\,b(A-8\,B+8\,C)\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/$$

$$\left(\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)+$$

$$\frac{4\,a^4\,A\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{11\,a^2\,A\,b^2\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\sqrt{1+\frac{(-a+b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{12\,a^3\,b\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{12\,a\,b^3\,\sqrt{\frac{-a+b}{a+b}}\;B\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{8\,a^4\,\sqrt{\frac{-a+b}{a+b}}\;C\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{8\,a^2\,b^2\,\sqrt{\frac{-a+b}{a+b}}\;C\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{4\,a^4\,A\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{11\,a^2\,A\,b^2\,\sqrt{\frac{-a+b}{a+b}}\;\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\;\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a-b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{15\,A\,b^4\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{12\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{12\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{8\,a^4\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}-$$

$$\frac{8\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\left(1-\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}\right)\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\,\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+$$

$$\frac{1}{2\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}(a-b)\sqrt{\frac{-a+b}{a+b}}\left(15\,A\,b^3+4\,a^3\,B-12\,a\,b^2\,B+a^2\,(-7\,A\,b+8\,b\,C)\right)$$

$$\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\;\sqrt{1+\frac{(-a+b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a-b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(4\,a^3\sqrt{\frac{-a+b}{a+b}}\,\left(a^2-b^2\right)\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)$$

Timed out after 60 seconds:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$-\Bigg(2\,(a+b)\left(-2\,a^3\,A\,b^2+6\,a\,A\,b^4+8\,a^4\,b\,B-15\,a^2\,b^3\,B+3\,b^5\,B-16\,a^5\,C+28\,a^3\,b^2\,C-8\,a\,b^4\,C\right)$$

$$\sqrt{1+\mathrm{Cos}[c+d\,x]}\;\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticE}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\Bigg)\Bigg/$$

$$\left(3\,b^4\left(a^2-b^2\right)^2 d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)+\Bigg(16\left(\frac{3}{8}\,b\left(a^2\,A\,b^2+3\,A\,b^4+2\,a^3\,b\,B-6\,a\,b^3\,B-4\,a^4\,C+7\,a^2\,b^2\,C+b^4\,C\right)+\right.$$

$$\left.\frac{3}{8}\left(-2\,a^3\,A\,b^2+6\,a\,A\,b^4+8\,a^4\,b\,B-15\,a^2\,b^3\,B+3\,b^5\,B-16\,a^5\,C+28\,a^3\,b^2\,C-8\,a\,b^4\,C\right)\right)$$

$$\sqrt{1+\mathrm{Cos}[c+d\,x]}\;\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{(a+b)\,(1+\mathrm{Cos}[c+d\,x])}}\;\mathrm{EllipticF}\left[\mathrm{ArcSin}\left[\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ -\frac{-a+b}{a+b}\right]\Bigg)\Bigg/$$

$$\left(9\,b^3\left(a^2-b^2\right)^2 d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)+$$

$$\frac{2\left(-2\,a^3\,A\,b^2+6\,a\,A\,b^4+8\,a^4\,b\,B-15\,a^2\,b^3\,B+3\,b^5\,B-16\,a^5\,C+28\,a^3\,b^2\,C-8\,a\,b^4\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{3\,b^4\left(a^2-b^2\right)^2 d}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\mathrm{Sec}[c+d\,x]^2\,\mathrm{Tan}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{4\left(-\frac{3}{2}\,a\,b^2\,(-a\,A+b\,B-a\,C)+2\,b^2\left(A\,b^2-a\,b\,B+a^2\,C\right)-\frac{3}{2}\,a^2\left(A\,b^2-a\,b\,B+2\,a^2\,C-b^2\,C\right)\right)\mathrm{Sec}[c+d\,x]\,\mathrm{Tan}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)^2 d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\left(a^2\,A\,b^2-5\,A\,b^4-4\,a^3\,b\,B+8\,a\,b^3\,B+8\,a^4\,C-13\,a^2\,b^2\,C+b^4\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Tan}[c+d\,x]}{3\,b^3\left(a^2-b^2\right)^2 d}$$

???

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 7,\ 0\right\}$$

$$\left(2\left(a^2 A b^2+3 A b^4+2 a^3 b B-6 a b^3 B-8 a^4 C+15 a^2 b^2 C-3 b^4 C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,(a-b)^2 b^3\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\left(2\left(a A b^2+3 A b^3+2 a^2 b B-3 a b^2 B-3 b^3 B-8 a^3 C+6 a^2 b C+9 a b^2 C-3 b^3 C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,(a-b)^2 b^2\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-$$

$$\frac{2\left(a^2 A b^2+3 A b^4+2 a^3 b B-6 a b^3 B-8 a^4 C+15 a^2 b^2 C-3 b^4 C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{3 b^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{2\left(A b^2-a b B+a^2 C\right)\text{Sec}[c+d\,x]\,\text{Tan}[c+d\,x]}{3 b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{2\left(2 a^2 A b^2+2 A b^4+a^3 b B-5 a b^3 B-4 a^4 C+8 a^2 b^2 C\right)\text{Tan}[c+d\,x]}{3 b^2\left(a^2-b^2\right)^2 d\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\int\frac{\text{Sec}[c+d\,x]^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+d\,x]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 6,\ 0\right\}$$

$$-\frac{2\left(4 a A b^2-a^2 b B-3 b^3 B-2 a^3 C+6 a b^2 C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,(a-b)^2 b^2\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\left(2\left(3 a A b+A b^2-a b B-3 b^2 B-2 a^2 C+3 a b C+3 b^2 C\right)\sqrt{1+\text{Cos}[c+d\,x]}\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,(a-b)^2 b\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\left(4 a A b^2-a^2 b B-3 b^3 B-2 a^3 C+6 a b^2 C\right)\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{3\,(a-b)\,b^2\,(a+b)^2 d\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\left(A b^2-a b B+a^2 C\right)\text{Tan}[c+d\,x]}{3 b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\int\frac{\text{Sec}[c+d\,x]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(7a^2Ab^2-3Ab^4-4a^3bB+a^4C+3a^2b^2C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{3a^2(a-b)^2b(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\left(2\left(3a^2A+3aAb-2Ab^2-3a^2B-abB+a^2C+3abC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3a(a-b)^2(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\frac{4A\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}-$$

$$\frac{2\left(7a^2Ab^2-3Ab^4-4a^3bB+a^4C+3a^2b^2C\right)\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3a^2(a-b)b(a+b)^2d\sqrt{a+b\,\text{Sec}[c+dx]}}+\frac{2\left(Ab^2-abB+a^2C\right)\text{Tan}[c+dx]}{3a\left(a^2-b^2\right)d(a+b\,\text{Sec}[c+dx])^{3/2}}$$

$$\int\frac{A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2}{(a+b\,\text{Sec}[c+dx])^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Cos}[c+dx]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{5/2}},x,9,0\right\}$$

$$\left(\left(3a^4A-26a^2Ab^2+15Ab^4+14a^3bB-6ab^3B-8a^4C\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3a^3(a-b)^2(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)+$$

$$\left(2\left(6a^2Ab+3aAb^2-5Ab^3-3a^3B-3a^2bB+2ab^2B+3a^3C+a^2bC\right)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/\left(3a^2(a-b)^2(a+b)d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}\right)-$$

$$\frac{2(5Ab-2aB)\sqrt{1+\text{Cos}[c+dx]}\sqrt{\frac{b+a\,\text{Cos}[c+dx]}{(a+b)(1+\text{Cos}[c+dx])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],-\frac{-a+b}{a+b}\right]}{a^3d\sqrt{\text{Cos}[c+dx]}\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\text{Sin}[c+dx]}{3a\left(a^2-b^2\right)d(a+b\,\text{Sec}[c+dx])^{3/2}}+\frac{2\left(9a^2Ab^2-5Ab^4-6a^3bB+2ab^3B+3a^4C+a^2b^2C\right)\text{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)^2d\sqrt{a+b\,\text{Sec}[c+dx]}}+$$

$$\frac{\left(3a^4A-26a^2Ab^2+15Ab^4+14a^3bB-6ab^3B-8a^4C\right)\text{Cos}[c+dx]\sqrt{a+b\,\text{Sec}[c+dx]}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]}{3a^3\left(a^2-b^2\right)^2d}$$

$$\int\frac{\text{Cos}[c+dx]\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{5/2}}\,dx$$

Incorrect antiderivative:

$$\left\{\frac{\text{Cos}[c+dx]^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^{5/2}},x,10,0\right\}$$

$$-\left(\left(33 a^4 A b-170 a^2 A b^3+105 A b^5-12 a^5 B+104 a^3 b^2 B-60 a b^4 B-56 a^4 b C+24 a^2 b^3 C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(12 a^4 (a-b)^2 (a+b) d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}\right)-$$

$$\left(\left(6 a^4 A-9 a^3 A b+33 a^2 A b^2+21 a A b^3-35 A b^4-24 a^3 b B-12 a^2 b^2 B+20 a b^3 B+12 a^4 C+12 a^3 b C-8 a^2 b^2 C\right)\right.$$

$$\left.\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Big/$$

$$\left(6 a^3 (a-b)^2 (a+b) d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\frac{\left(4 a^2 A+35 A b^2-20 a b B+8 a^2 C\right)\sqrt{1+\text{Cos}[c+d x]}\sqrt{\frac{b+a \text{Cos}[c+d x]}{(a+b)(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{2 a^4 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(A b^2-a b B+a^2 C\right)\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d\,(a+b \text{Sec}[c+d x])^{3/2}}+$$

$$\frac{2\left(11 a^2 A b^2-7 A b^4-8 a^3 b B+4 a b^3 B+5 a^4 C-a^2 b^2 C\right)\text{Cos}[c+d x]\,\text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d\sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{\left(3 a^4 A-54 a^2 A b^2+35 A b^4+36 a^3 b B-20 a b^3 B-24 a^4 C+8 a^2 b^2 C\right)\text{Cos}[c+d x]\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{6 a^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{1}{12 a^4\left(a^2-b^2\right)^2 d}\left(33 a^4 A b-170 a^2 A b^3+105 A b^5-12 a^5 B+104 a^3 b^2 B-60 a b^4 B-56 a^4 b C+24 a^2 b^3 C\right)$$

$$\text{Cos}[c+d x]\sqrt{a+b \text{Sec}[c+d x]}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]$$

$$\frac{1}{d\,(a+b \text{Sec}[c+d x])^{5/2}}$$

$$(b+a \text{Cos}[c+d x])^3 \text{Sec}[c+d x]^3\left(\frac{2 b\left(-13 a^2 A b^2+9 A b^4+10 a^3 b B-6 a b^3 B-7 a^4 C+3 a^2 b^2 C\right)\text{Sin}[c+d x]}{3 a^4\left(-a^2+b^2\right)^2}+\right.$$

$$\frac{2\left(A b^5 \text{Sin}[c+d x]-a b^4 B \text{Sin}[c+d x]+a^2 b^3 C \text{Sin}[c+d x]\right)}{3 a^4\left(-a^2+b^2\right)(b+a \text{Cos}[c+d x])^2}-$$

$$\left(2\left(-14 a^2 A b^4 \text{Sin}[c+d x]+10 A b^6 \text{Sin}[c+d x]+11 a^3 b^3 B \text{Sin}[c+d x]-7 a b^5 B \text{Sin}[c+d x]-\right.\right.$$

$$\left.\left.\left.8 a^4 b^2 C \text{Sin}[c+d x]+4 a^2 b^4 C \text{Sin}[c+d x]\right)\right)\Big/\left(3 a^4\left(-a^2+b^2\right)^2(b+a \text{Cos}[c+d x])\right)+\frac{A \text{Sin}[2(c+d x)]}{4 a^3}\right)+$$

$$\Bigg(\Big(b+a\,\mathrm{Cos}[c+d\,x]\Big)^{5/2}\Bigg(\frac{a^2\,A}{2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,b^2}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{7\,A\,b^4}{6\,a^2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{2\,a\,b\,B}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\,B}{3\,a\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{a^2\,C}{\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b^2\,C}{3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}}-\frac{9\,a\,A\,b\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{31\,A\,b^3\,\sqrt{\mathrm{Sec}[c+d\,x]}}{12\,a\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{35\,A\,b^5\,\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,a^3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{a^2\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{4\,b^2\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{5\,b^4\,B\,\sqrt{\mathrm{Sec}[c+d\,x]}}{6\,a^2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{a\,b\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{b^3\,C\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,a\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-$$

$$\frac{11\,a\,A\,b\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{85\,A\,b^3\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{12\,a\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{35\,A\,b^5\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,a^3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{a^2\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{13\,b^2\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\frac{5\,b^4\,B\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{2\,a^2\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+$$

$$\frac{7\,a\,b\,C\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\frac{b^3\,C\,\mathrm{Cos}[2\,(c+d\,x)]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{a\,\left(-a^2+b^2\right)^2\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}\Bigg)\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$\Bigg(-\Bigg(\left(-33\,a^4\,A\,b+170\,a^2\,A\,b^3-105\,A\,b^5+12\,a^5\,B-104\,a^3\,b^2\,B+60\,a\,b^4\,B+56\,a^4\,b\,C-24\,a^2\,b^3\,C\right)\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]$$

$$\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)\Bigg/$$

$$\left(4\,a\,\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\,\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{33\,a^3\,A\,b^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{15\,a\,b^4\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{15\,b^5\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Big/$$

$$\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-\right.\right.$$

$$\left.135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)$$

$$\left.\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/\left(8\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(170\,i\,a^2\,A\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(105\,i\,A\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(104\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(56\, i\, a^4 b\, C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(24\, i\, a^2 b^3 C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^3\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^5 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^4 b\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\right)\right)\Bigg/$$

$$\left(\left(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-\right.\right.$$

$$60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+24\,a^5\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-32\,a^3\,b^2\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$48\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+56\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$24\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\Bigg)\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(d\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\Bigg(\Bigg(\left(-33\,a^4\,A\,b+170\,a^2\,A\,b^3-105\,A\,b^5+12\,a^5\,B-104\,a^3\,b^2\,B+60\,a\,b^4\,B+56\,a^4\,b\,C-24\,a^2\,b^3\,C\right)$$

$$\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\left(a\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-b\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)\Bigg/$$

$$\Bigg(4\,a\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)^2-$$

$$\Bigg(\left(-33\,a^4\,A\,b+170\,a^2\,A\,b^3-105\,A\,b^5+12\,a^5\,B-104\,a^3\,b^2\,B+60\,a\,b^4\,B+56\,a^4\,b\,C-24\,a^2\,b^3\,C\right)$$

$$\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\left(-a\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\Bigg)\Bigg/$$

$$\Bigg(4\,a\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\right)+$$

$$\Bigg(\left(-33\,a^4\,A\,b+170\,a^2\,A\,b^3-105\,A\,b^5+12\,a^5\,B-104\,a^3\,b^2\,B+60\,a\,b^4\,B+56\,a^4\,b\,C-24\,a^2\,b^3\,C\right)$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(8 a\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\Bigg(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B+56 a^4 b C-24 a^2 b^3 C\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(8 a\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\Bigg(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B+56 a^4 b C-24 a^2 b^3 C\right)$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\left(a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)\Bigg/$$

$$\left(8 a\sqrt{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)-$$

$$\Bigg(\left(-33 a^4 A b+170 a^2 A b^3-105 A b^5+12 a^5 B-104 a^3 b^2 B+60 a b^4 B+56 a^4 b C-24 a^2 b^3 C\right)$$

$$\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)$$

$$\left(\frac{-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}-\right.$$

$$\left.\frac{\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)}{\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^2}\right)\Bigg)\Bigg/$$

$$\left(8a\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right.$$

$$\left.\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)+$$

$$\left(\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{a+b-2a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(-\frac{33a^4Ab\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{8\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+\right.$$

$$\frac{33a^3Ab^2\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{8\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+$$

$$\frac{85\,a^2\,A\,b^3\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}-$$

$$\frac{85\,a\,A\,b^4\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}-$$

$$\frac{105\,A\,(a-b)\,b^5\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{8\,a\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}$$

$$+$$

$$\frac{3\,a^5\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}-$$

$$\frac{3\,a^4\,b\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}-$$

$$\frac{13\,a^3\,b^2\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}+$$

$$\frac{13\,a^2\,b^3\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}+$$

$$\frac{15\,a\,b^4\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}-$$

$$\frac{15\,b^5\,B\left(-a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}}+$$

$$\frac{7 a^4 b C \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{7 a^3 b^2 C \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\frac{3 a^2 b^3 C \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}+$$

$$\frac{3 a b^4 C \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}}-$$

$$\left(\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B-48 a^4 C+8 a^3 b C+24 a^2 b^2 C\right) \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/ \left(16 a \left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left(\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B-48 a^4 C+8 a^3 b C+24 a^2 b^2 C\right) \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/ \left(16 a \left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right)+$$

$$\left(3 (a-b)^2 (a+b)^2 \left(4 a^2 A+35 A b^2-20 a b B+8 a^2 C\right) \left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]+\right.\right.$$

$$b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Bigg)\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\left(a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}\right)-$$

$$\frac{33\,a^4\,A\,b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{33\,a^3\,A\,b^2\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{85\,a^2\,A\,b^3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{4\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{85\,a\,A\,b^4\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{4\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{105\,A\,(a-b)\,b^5\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\,a\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{3\,a^5\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^4\,b\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{13\,a^3\,b^2\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{13\,a^2\,b^3\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{15\,a\,b^4\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{15\,b^5\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{7\,a^4\,b\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{7\,a^3\,b^2\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{3\,a^2\,b^3\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{3\,a\,b^4\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Big/$$

$$\left(16\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)+$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\Big/$$

$$\left(16\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(16\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)+$$

$$\left((a-b)\,b\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(16\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)+$$

$$\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]}{8\,a\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2\,A\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(104\,i\,a^3\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(56\,i\,a^4\,b\,C\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(24\, i\, a^2 b^3 C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\frac{12\, i\, a^5 A\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{39\, i\, a^4 A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{120\, i\, a^3 A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{58\, i\, a^2 A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^3\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^5 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^4 b\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$24\,a^5\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-32\,a^3\,b^2\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$48\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$60\, a\, b^4\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 + 56\, a^4\, b\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 - 24\, a^2\, b^3\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right) - b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg) -$$

$$\Bigg(\left(a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] - b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 - b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Bigg(\frac{33\, a^4\, A\, b\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} - \frac{33\, a^3\, A\, b^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} -$$

$$\frac{85\, a^2\, A\, b^3\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} + \frac{85\, a\, A\, b^4\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} +$$

$$\frac{105\, A\,(a-b)\, b^5\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\, a\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} - \frac{3\, a^5\, B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}} +$$

$$\frac{3 a^4 b B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{26 a^3 b^2 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{26 a^2 b^3 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{15 a b^4 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{15 b^5 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{14 a^4 b C \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{14 a^3 b^2 C \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{6 a^2 b^3 C \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{6 a b^4 C \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+\right.\right.$$

$$\left.\left.12 a^4 B+84 a^3 b B-20 a^2 b^2 B-60 a b^3 B-48 a^4 C+8 a^3 b C+24 a^2 b^2 C\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(8 a \left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\left((a-b) b \left(6 a^4 A-27 a^3 A b-135 a^2 A b^2+35 a A b^3+105 A b^4+12 a^4 B+84 a^3 b B-20 a^2 b^2 B-\right.\right.$$

$$\left.\left.60 a b^3 B-48 a^4 C+8 a^3 b C+24 a^2 b^2 C\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(8 a \left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{a+b-a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)-$$

$$\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(-\Bigg(33\,i\,a^4\,A\,b\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2\,A\,b^3\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\Big[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\Big]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(104\,i\,a^3\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(56\, i\, a^4\, b\, C\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(24\, i\, a^2\, b^3\, C\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\, i\, a^5\, A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\, i\, a^4\, A\, b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\, i\, a^3\, A\, b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\, i\, a^2 A b^3 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{140\, i\, a A b^4 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A b^5 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4 b B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3 b^2 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2 b^3 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(48\, i\, a^5\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(48\,i\,a^4\,b\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\, a^3\, b^2\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + 80\, a^2\, b^3\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + 120\, a\, b^4\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 +$$

$$24\, a^5\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + 72\, a^4\, b\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 - 32\, a^3\, b^2\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 -$$

$$48\, a^2\, b^3\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 - 33\, a^4\, A\, b\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 + 170\, a^2\, A\, b^3\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 -$$

$$105\, A\, b^5\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 + 12\, a^5\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 - 104\, a^3\, b^2\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 +$$

$$60\, a\, b^4\, B\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 + 56\, a^4\, b\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4 - 24\, a^2\, b^3\, C\, \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right) - b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)^2\Bigg) -$$

$$\Bigg(\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2 + b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\Bigg(12\, a^5\, A\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 6\, a^4\, A\, b\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] +$$

$$120\, a^3\, A\, b^2\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 228\, a^2\, A\, b^3\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] -$$

$$140\, a\, A\, b^4\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] - 210\, A\, b^5\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] -$$

$$72\, a^4\, b\, B\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] - 144\, a^3\, b^2\, B\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] +$$

$$80\, a^2\, b^3\, B\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 120\, a\, b^4\, B\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] +$$

$$24\, a^5\, C\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] + 72\, a^4\, b\, C\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] -$$

$$32\, a^3\, b^2\, C\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] - 48\, a^2\, b^3\, C\, \mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right] -$$

$$66\,a^4\,A\,b\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+340\,a^2\,A\,b^3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-$$

$$210\,A\,b^5\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+24\,a^5\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-$$

$$208\,a^3\,b^2\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+120\,a\,b^4\,B\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3+$$

$$112\,a^4\,b\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3-48\,a^2\,b^3\,C\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\Bigg)$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Bigg(\frac{33\,a^4\,A\,b\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{15\,a\,b^4\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{15\,b^5\,B\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Big)\Big/$$

$$\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Big)\Big/$$

$$\left(8\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2\,A\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\ \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(104\,i\,a^3\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(56\,i\,a^4\,b\,C\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(24\, i\, a^2 b^3 C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\frac{12\, i\, a^5 A\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{39\, i\, a^4 A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{120\, i\, a^3 A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{58\, i\, a^2 A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^3\, A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^3 b^2 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^5 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^4 b\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\right)\right)\Bigg/$$

$$\left(\left(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-\right.\right.$$

$$60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+24\,a^5\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$32\,a^3\,b^2\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-48\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$\left.60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+56\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-24\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^2$$

$$\left(a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\Bigg(-2\,a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]+$$

$$2\,a\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3-2\,b\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\Bigg)$$

$$\Bigg(\frac{33\,a^4\,A\,b\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{33\,a^3\,A\,b^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{15\,a\,b^4\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{15\,b^5\,B\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\, i\, a^4 A b \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) + \left(170\, i\, a^2 A b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) - \left(105\, i\, A b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(12\, i\, a^5 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(104\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(56\, i\, a^4 b C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^2\,b^3\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\, i\, a^2 A b^3 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{140\, i\, a A b^4 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A b^5 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4 b B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3 b^2 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2 b^3 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(48\, i\, a^5\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)+$$

$$\Bigg(48\,i\,a^4\,b\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)-$$

$$\Bigg(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)-$$

$$\Bigg(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\, a\, A\, b^4 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 210\, A\, b^5 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 72\, a^4\, b\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$144\, a^3\, b^2\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 80\, a^2\, b^3\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 120\, a\, b^4\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$24\, a^5\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 72\, a^4\, b\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 32\, a^3\, b^2\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$48\, a^2\, b^3\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 33\, a^4\, A\, b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 170\, a^2\, A\, b^3 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$105\, A\, b^5 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 12\, a^5\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 104\, a^3\, b^2\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$60\, a\, b^4\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 56\, a^4\, b\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 24\, a^2\, b^3\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)$$

$$\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg) +$$

$$\Bigg(\left(-a \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] + b \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{a+b-2\, a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\Bigg(\frac{33\, a^4\, A\, b \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} - \frac{33\, a^3\, A\, b^2 \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} -$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{15\,a\,b^4\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{15\,b^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(8\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B-48a^4C+8a^3bC+24a^2b^2C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/$$

$$\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-$$

$$\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB+8a^2C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(-\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)+$$

$$\Bigg(170\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4}\right)-$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(12\, i\, a^5\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(104\, i\, a^3\, b^2\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4\, B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(56\,i\,a^4\,b\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^2\,b^3\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\, i\, a^4\, A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{120\, i\, a^3\, A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} -$$

$$\frac{58\, i\, a^2\, A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{140\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{105\, i\, A\, b^5\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}} +$$

$$\frac{40\, i\, a^3 b^2 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2 b^3 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4 b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3 b^2 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2 b^3 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24\, i\, a^4 A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^3 A\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(186\, i\, a^2 A\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(210\, i\, a A\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\,i\,a^2\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(48\, i\, a^5\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(48\, i\, a^4\, b\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\, i\, a^3\, b^2\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\, i\, a^2\, b^3\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\Big(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+$$

$$70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-60\,a\,b^4\,B-$$

$$24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$24\,a^5\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-32\,a^3\,b^2\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$48\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+56\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-24\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Big)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)+$$

$$\Bigg(3\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}$$

$$\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{33\,a^3\,A\,b^2\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\,\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{3\,a^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{26\,a^3\,b^2\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{15\,a\,b^4\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{15\,b^5\,B\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\,\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(-\left(33\,i\,a^4\,A\,b\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(170\, i\, a^2 A b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(105\, i\, A b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(12\, i\, a^5 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(104\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(60\,i\,a\,b^4\,B\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(56\,i\,a^4\,b\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^2\,b^3\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\,i\,a^2\,A\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{140\,i\,a\,A\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\,i\,A\,b^5\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{12\, i\, a^5\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4\, b\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3\, b^2\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2\, b^3\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\, \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3 b^2 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2 b^3 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5 A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4 A b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^3 A b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(186\, i\, a^2 A b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(120\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(120\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(120\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(120\, i\, a\, b^4 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^5 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(48\, i\, a^4 b\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(48\, i\, a^3 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\right)\Bigg)\Bigg/$$

$$\Bigg(2\,\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$24\,a^5\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-32\,a^3\,b^2\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$48\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-33\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+170\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-$$

$$105\,A\,b^5\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+12\,a^5\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-104\,a^3\,b^2\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+$$

$$60\,a\,b^4\,B\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4+56\,a^4\,b\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4-24\,a^2\,b^3\,C\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\Bigg)$$

$$\left(a\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)-b\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\right)\Bigg)\Bigg)+$$

$$\left(\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}\right.$$

$$\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4-b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\left(\frac{33\,a^4\,A\,b\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{33\,a^3\,A\,b^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\right.$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{15\,a\,b^4\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{15\,b^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}-\frac{14\,a^4\,b\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(-1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-\right.\right.$$

$$\left.60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\Bigg)\Bigg/$$

$$\left(8\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)-$$

$$\left.\frac{3\,(a-b)^2\,(a+b)^2\,\left(4\,a^2\,A+35\,A\,b^2-20\,a\,b\,B+8\,a^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}{4\,a\,\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}\right)$$

$$\left(\frac{-a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}-\right.$$

$$\left.\frac{\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\,\left(a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)^2}\right)$$

$$\left(-\left(33\, i\, a^4 A b \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) + \left(170\, i\, a^2 A b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) - \left(105\, i\, A b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(12\, i\, a^5 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(104\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(60\, i\, a\, b^4 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(56\, i\, a^4 b C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[\right.\right.\right.$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right],\frac{a+b}{a-b}\right]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^2\,b^3\,C\,\Bigg(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\Bigg[$$

$$i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\Bigg]\Bigg)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\frac{12\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{120\,i\,a^3\,A\,b^2\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{58\, i\, a^2 A b^3 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{140\, i\, a A b^4 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{105\, i\, A b^5 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{12\, i\, a^5 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{72\, i\, a^4 b B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{40\, i\, a^3 b^2 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{80\, i\, a^2 b^3 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{60\, i\, a\, b^4\, B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{24\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{16\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{32\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{24\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}{\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\left(24\, i\, a^5\, A\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(24\, i\, a^4\, A\, b\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^3\,A\,b^2\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(186\,i\,a^2\,A\,b^3\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,a\,A\,b^4\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(210\,i\,A\,b^5\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(120\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(120\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(120\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\left.\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(48\, i\, a^5\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)+$$

$$\Bigg(48\,i\,a^4\,b\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)-$$

$$\Bigg(48\,i\,a^3\,b^2\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)-$$

$$\Bigg(48\,i\,a^2\,b^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/\Bigg(\sqrt{-\frac{a-b}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(2\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\,\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+$$

$$70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-40\,a^2\,b^3\,B-60\,a\,b^4\,B-$$

$$24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\, a\, A\, b^4 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 210\, A\, b^5 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 72\, a^4\, b\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$144\, a^3\, b^2\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 80\, a^2\, b^3\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 120\, a\, b^4\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 +$$

$$24\, a^5\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + 72\, a^4\, b\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 32\, a^3\, b^2\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 -$$

$$48\, a^2\, b^3\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 33\, a^4\, A\, b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 170\, a^2\, A\, b^3 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$105\, A\, b^5 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 12\, a^5\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 104\, a^3\, b^2\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$60\, a\, b^4\, B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 56\, a^4\, b\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 24\, a^2\, b^3\, C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)$$

$$\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg) +$$

$$\Bigg(\sqrt{\frac{1}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\sqrt{\frac{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}$$

$$\sqrt{a+b-2\,a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4-b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}$$

$$\Bigg(\frac{33\, a^4\, A\, b\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} - \frac{33\, a^3\, A\, b^2\sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{4\sqrt{a+b-a\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} -$$

$$\frac{85\,a^2\,A\,b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{85\,a\,A\,b^4\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{105\,A\,(a-b)\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{4\,a\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{3\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{3\,a^4\,b\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{26\,a^3\,b^2\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{26\,a^2\,b^3\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{15\,a\,b^4\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{15\,b^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-\frac{14\,a^4\,b\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+$$

$$\frac{14\,a^3\,b^2\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\frac{6\,a^2\,b^3\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}-$$

$$\frac{6\,a\,b^4\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}+\left((a-b)\,b\,\left(6\,a^4\,A-27\,a^3\,A\,b-135\,a^2\,A\,b^2+35\,a\,A\,b^3+105\,A\,b^4+\right.\right.$$

$$\left.\left.12\,a^4\,B+84\,a^3\,b\,B-20\,a^2\,b^2\,B-60\,a\,b^3\,B-48\,a^4\,C+8\,a^3\,b\,C+24\,a^2\,b^2\,C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(8\,a\left(-1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)-$$

$$\left((a-b)\,b\left(6a^4A-27a^3Ab-135a^2Ab^2+35aAb^3+105Ab^4+12a^4B+84a^3bB-20a^2b^2B-60ab^3B-48a^4C+8a^3bC+24a^2b^2C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)\Big/$$

$$\left(8a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\right)-$$

$$\frac{3(a-b)^2(a+b)^2\left(4a^2A+35Ab^2-20abB+8a^2C\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}{4a\left(1+\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2\right)\sqrt{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}}\Bigg)$$

$$\Bigg(\Bigg(33\,i\,a^4Ab\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}$$

$$\left(-2a\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]+2(a-b)\,\text{Sec}\left[\frac{1}{2}(c+dx)\right]^2\text{Tan}\left[\frac{1}{2}(c+dx)\right]^3\right)\Bigg)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2a\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^4\right)^{3/2}\right)-$$

$$\Bigg(85\,i\,a^2Ab^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]\right],\frac{a+b}{a-b}\right]\right)\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+dx)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(105\,i\,A\,b^5\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(2\,\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(6\,i\,a^5\,B\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(52\, i\, a^3 b^2 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2\, a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2\,(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) -$$

$$\left(30\, i\, a\, b^4 B \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2\, a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2\,(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) -$$

$$\left(28\, i\, a^4 b\, C \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] - \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(12\,i\,a^2\,b^3\,C\,\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[\right.\right.\right.$$

$$\left.i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\Bigg)\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}$$

$$\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(6\,i\,a^5\,A\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\left(-2\,a\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+2\,(a-b)\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\,\left(a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(39\,i\,a^4\,A\,b\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\,i\,a^3\,A\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(29\,i\,a^2\,A\,b^3\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(70\,i\,a\,A\,b^4\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(105 i A b^5 \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(2\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(6 i a^5 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(36 i a^4 b B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(20\, i\, a^3 b^2 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2\, a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2\,(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) +$$

$$\left(40\, i\, a^2 b^3 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2\, a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2\,(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) +$$

$$\left(30\, i\, a\, b^4 B\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2\, a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + 2\,(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) +$$

$$\left(12\, i\, a^5 C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(8\,i\,a^4\,b\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(16\,i\,a^3\,b^2\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(12\,i\,a^2\,b^3\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(12 i a^5 A \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(12 i a^4 A b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(93 i a^3 A b^2 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(93\, i\, a^2 A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(105\, i\, a A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(105\, i\, A b^5 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b)\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right)\Big/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\, i\, a^4 b B \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)+$$

$$\left(60\,i\,a^3\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(60\,i\,a^2\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^3\right)\Bigg/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4\right)^{3/2}\right)-$$

$$\left(60\,i\,a\,b^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\left(-2\,a\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]+2\,(a-b)\,\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(24 i a^5 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)-$$

$$\left(24 i a^4 b C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(24 i a^3 b^2 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\left(-2 a \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]+2(a-b) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right/\left(\sqrt{-\frac{a-b}{a+b}}\left(a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b) \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right)+$$

$$\left(24\, i\, a^2 b^3 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right.$$

$$\sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \left(-2 a\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] + \right.$$

$$\left.\left. 2(a-b)\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]^3\right)\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}} \left(a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + \right.\right.$$

$$\left.\left.(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4\right)^{3/2}\right) + \frac{6 a^5 A\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{39 a^4 A b\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{60 a^3 A b^2\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} +$$

$$\frac{29 a^2 A b^3\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{70 a A b^4\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{105 A b^5\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{6 a^5 B\, \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{\sqrt{a+b-2 a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 + (a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}} -$$

$$\frac{36\,a^4\,b\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{20\,a^3\,b^2\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{40\,a^2\,b^3\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{30\,a\,b^4\,B\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{12\,a^5\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{8\,a^4\,b\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{16\,a^3\,b^2\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{12\,a^2\,b^3\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{12\,a^5\,A\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{12\,a^4\,A\,b\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}-$$

$$\frac{93\, a^3\, A\, b^2\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{93\, a^2\, A\, b^3\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, a\, A\, b^4\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{105\, A\, b^5\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{60\, a^4\, b\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{60\, a^3\, b^2\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{60\, a^2\, b^3\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{60\, a\, b^4\, B\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{24\, a^5\, C\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}-$$

$$\frac{24\, a^4\, b\, C\, \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}}+$$

$$\frac{24\,a^3\,b^2\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\frac{24\,a^2\,b^3\,C\,\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{\left(1+\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\right)\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}}+$$

$$\left(33\,i\,a^4\,A\,(a-b)\,b\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(85\,i\,a^2\,A\,(a-b)\,b^3\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(105\,i\,A\,(a-b)\,b^5\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(6\,i\,a^5\,(a-b)\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(52\,i\,a^3\,(a-b)\,b^2\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(30\,i\,a\,(a-b)\,b^4\,B\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(28\,i\,a^4\,(a-b)\,b\,C\left(\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^2\,(a-b)\,b^3\,C\left(\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]-\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right)\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(6\,i\,a^5\,A\,(a-b)\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(39\,i\,a^4\,A\,(a-b)\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a^3\,A\,(a-b)\,b^2\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(29\,i\,a^2\,A\,(a-b)\,b^3\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(70\,i\,a\,A\,(a-b)\,b^4\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,(a-b)\,b^5\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(6\,i\,a^5\,(a-b)\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(36\,i\,a^4\,(a-b)\,b\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)-$$

$$\left(20\,i\,a^3\,(a-b)\,b^2\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\,\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^4}\right)+$$

$$\left(40\,i\,a^2\,(a-b)\,b^3\,B\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(30\,i\,a\,(a-b)\,b^4\,B\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(12\,i\,a^5\,(a-b)\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(8\,i\,a^4\,(a-b)\,b\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(16\,i\,a^3\,(a-b)\,b^2\,C\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(12 i a^2 (a-b) b^3 C \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(12 i a^5 A (a-b) \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(12 i a^4 A (a-b) b \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}(a+b)\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(93\, i\, a^3 A\, (a-b)\, b^2\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(93\, i\, a^2 A\, (a-b)\, b^3\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(105\, i\, a\, A\, (a-b)\, b^4\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, (a+b) \sqrt{1-\frac{(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\, a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) +$$

$$\left(105\, i\, A\, (a-b)\, b^5\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a^4\,(a-b)\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\,i\,a^3\,(a-b)\,b^2\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\,i\,a^2\,(a-b)\,b^3\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left.\mathrm{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\,\sqrt{a+b-2\,a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\,i\,a\,(a-b)\,b^4\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^5\,(a-b)\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^4\,(a-b)\,b\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\Bigg(24\,i\,a^3\,(a-b)\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b)\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24\, i\, a^2 (a-b)\, b^3\, C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\,(a+b) \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(33\, i\, a^4 A\, b \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\, \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}} \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(85\, i\, a^2 A\, b^3 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\, \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right) \text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}} \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(105\, i\, A\, b^5 \left(\text{EllipticE}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]-\text{EllipticF}\left[i\, \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(6\,i\,a^5\,B\,\Bigg(\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]-\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(52\,i\,a^3\,b^2\,B\,\Bigg(\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]-\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(30\,i\,a\,b^4\,B\,\Bigg(\text{EllipticE}\Big[i\,\text{ArcSinh}\Big[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]-\text{EllipticF}\Big[i\,\text{ArcSinh}\Big[$$

$$\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\Big],\ \frac{a+b}{a-b}\Big]\Big)\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(28 i a^4 b C\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(12 i a^2 b^3 C\left(\text{EllipticE}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]-\text{EllipticF}\left[i \text{ArcSinh}\left[\right.\right.\right.\right.$$

$$\left.\left.\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right)\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(6 i a^5 A \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(39\, i\, a^4 A\, b\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(2\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\, i\, a^3 A\, b^2\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(29\, i\, a^2 A\, b^3\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(70\, i\, a\, A\, b^4\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}} \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{a+b-2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(105 i A b^5 \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(2 \sqrt{-\frac{a-b}{a+b}} \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{a+b-2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(6 i a^5 B \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2\right.$$

$$\left.\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}} \sqrt{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{a+b-2 a \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right) -$$

$$\left(36 i a^4 b B \operatorname{EllipticF}\left[i \operatorname{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}} \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\operatorname{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right] \sqrt{1-\frac{(a-b)\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(20 i a^3 b^2 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(40 i a^2 b^3 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(30 i a b^4 B \text{EllipticF}\left[i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(12\, i\, a^5\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) +$$

$$\left(8\, i\, a^4\, b\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(16\, i\, a^3\, b^2\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right] \text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/ \left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right) -$$

$$\left(12\, i\, a^2\, b^3\, C\, \text{EllipticF}\left[i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\,i\,a^5\,A\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(12\,i\,a^4\,A\,b\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(93\,i\,a^3\,A\,b^2\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(93 i a^2 A b^3 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(105 i a A b^4 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(105 i A b^5 \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(60\, i\, a^4\, b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\left(60\, i\, a^3\, b^2\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\, i\, a^2\, b^3\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d\,x)\right] \sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right) \Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\, \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\, \sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(60\, i\, a\, b^4\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b},\, i\, \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\, \frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(24\,i\,a^5\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(24\,i\,a^4\,b\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24\,i\,a^3\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\right.$$

$$\left(\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(24 i a^2 b^3 C \text{EllipticPi}\left[-\frac{a+b}{a-b}, i \text{ArcSinh}\left[\sqrt{-\frac{a-b}{a+b}}\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right]\right.$$

$$\left.\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2 \text{Tan}\left[\frac{1}{2}(c+d x)\right]\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)-$$

$$\left(33 i a^4 A b\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2 a \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(170 i a^2 A b^3\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(105\,i\,A\,b^5\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)+$$

$$\Bigg(12\,i\,a^5\,B\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\left(104\, i\, a^3 b^2 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(60\, i\, a\, b^4 B \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left.\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}}\right)\right)\Big/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^4}\right)+$$

$$\left(56\, i\, a^4 b\, C \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\right.$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)-$$

$$\Bigg(24\,i\,a^2\,b^3\,C\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}$$

$$\left(-\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2}{2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}+\frac{i\sqrt{-\frac{a-b}{a+b}}\,\text{Sec}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}{2\sqrt{1-\frac{(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}}\right)\Bigg)\Bigg/$$

$$\left(\sqrt{-\frac{a-b}{a+b}}\sqrt{a+b-2\,a\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+(a-b)\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^4}\right)\Bigg)\Bigg)\Bigg/$$

$$\Bigg(\Bigg(-12\,a^5\,A+15\,a^4\,A\,b-66\,a^3\,A\,b^2-128\,a^2\,A\,b^3+70\,a\,A\,b^4+105\,A\,b^5-12\,a^5\,B+48\,a^4\,b\,B+80\,a^3\,b^2\,B-$$

$$40\,a^2\,b^3\,B-60\,a\,b^4\,B-24\,a^5\,C-32\,a^4\,b\,C+16\,a^3\,b^2\,C+24\,a^2\,b^3\,C+12\,a^5\,A\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$6\,a^4\,A\,b\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a^3\,A\,b^2\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+228\,a^2\,A\,b^3\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$140\,a\,A\,b^4\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-210\,A\,b^5\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-72\,a^4\,b\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$144\,a^3\,b^2\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+80\,a^2\,b^3\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+120\,a\,b^4\,B\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+$$

$$24\,a^5\,C\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+72\,a^4\,b\,C\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-32\,a^3\,b^2\,C\,\text{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2-$$

$$48 a^2 b^3 C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2 - 33 a^4 A b \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 170 a^2 A b^3 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 -$$

$$105 A b^5 \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 12 a^5 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 104 a^3 b^2 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 +$$

$$60 a b^4 B \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 + 56 a^4 b C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4 - 24 a^2 b^3 C \operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^4\Bigg)$$

$$\left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right) - b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\Bigg)\Bigg)$$

Incorrect antiderivative:

$$\left\{(a+b \operatorname{Sec}[c+d x])^{3/2}\left(a b B - a^2 C + b^2 B \operatorname{Sec}[c+d x] + b^2 C \operatorname{Sec}[c+d x]^2\right), x, 9, 0\right\}$$

$$-\frac{2 b (a+b)\left(35 a b B - 12 a^2 C + 9 b^2 C\right)\sqrt{1+\operatorname{Cos}[c+d x]}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticE}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{15 d\sqrt{\operatorname{Cos}[c+d x]}\sqrt{a+b \operatorname{Sec}[c+d x]}} -$$

$$\frac{1}{15 d\sqrt{\operatorname{Cos}[c+d x]}\sqrt{a+b \operatorname{Sec}[c+d x]}}$$

$$2\left(15 a^3 b B - 45 a^2 b^2 B - 35 a b^3 B - 5 b^4 B - 15 a^4 C + 30 a^3 b C + 12 a^2 b^2 C - 12 a b^3 C - 9 b^4 C\right)$$

$$\sqrt{1+\operatorname{Cos}[c+d x]}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticF}\left[\operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right] +$$

$$\frac{4 a^3 (b B - a C)\sqrt{1+\operatorname{Cos}[c+d x]}\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{(a+b)(1+\operatorname{Cos}[c+d x])}}\operatorname{EllipticPi}\left[-1, \operatorname{ArcSin}\left[\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right], -\frac{-a+b}{a+b}\right]}{d\sqrt{\operatorname{Cos}[c+d x]}\sqrt{a+b \operatorname{Sec}[c+d x]}} +$$

$$\frac{2 b\left(35 a b B - 12 a^2 C + 9 b^2 C\right)\sqrt{a+b \operatorname{Sec}[c+d x]}\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]}{15 d} +$$

$$\frac{2 b^2 (5 b B + 3 a C)\sqrt{a+b \operatorname{Sec}[c+d x]}\operatorname{Tan}[c+d x]}{15 d} + \frac{2 b^2 C (a+b \operatorname{Sec}[c+d x])^{3/2}\operatorname{Tan}[c+d x]}{5 d}$$

$$2\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,(b\,B-a\,C+b\,C\,\mathrm{Sec}[c+d\,x])$$

$$\Big(35\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+35\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]-12\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]-$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+9\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]+9\,b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]-$$

$$70\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3+24\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3-18\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^3+$$

$$35\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-35\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-12\,a^3\,b\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+$$

$$12\,a^2\,b^2\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+9\,a\,b^3\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5-9\,b^4\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^5+$$

$$30\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-30\,i\,a^4\,C\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],$$

$$\frac{a+b}{a-b}\Big]\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}+$$

$$30\,i\,a^3\,b\,B\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2$$

$$\sqrt{1-\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2+b\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2}{a+b}}-$$

$$30\,i\,a^4\,C\,\mathrm{EllipticPi}\Big[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\Big[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]\Big],\,\frac{a+b}{a-b}\Big]\,\mathrm{Tan}\Big[\frac{1}{2}\,(c+d\,x)\Big]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i(a-b)\,b\left(-35\,a\,b\,B+12\,a^2\,C-9\,b^2\,C\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+i(a-b)$$

$$\left(3\,a\,b^2(10\,B-C)+15\,a^3\,C-15\,a^2\,b\,(B+C)+b^3(-5\,B+9\,C)\right)\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\Bigg(15\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\text{Cos}[c+d x])^{5/2}\,(b\,C+b\,B\,\text{Cos}[c+d x]-a\,C\,\text{Cos}[c+d x])\,\text{Sec}[c+d x]^{7/2}$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\Bigg)+$$

$$\Bigg(\text{Cos}[c+d x]^3\,(a+b\,\text{Sec}[c+d x])^{5/2}\,(b\,B-a\,C+b\,C\,\text{Sec}[c+d x])\left(\frac{2}{15}\,b\left(35\,a\,b\,B-12\,a^2\,C+9\,b^2\,C\right)\text{Sin}[c+d x]+\right.$$

$$\left.\frac{2}{15}\,\text{Sec}[c+d x]\left(5\,b^3\,B\,\text{Sin}[c+d x]+6\,a\,b^2\,C\,\text{Sin}[c+d x]\right)+\frac{2}{5}\,b^3\,C\,\text{Sec}[c+d x]\,\text{Tan}[c+d x]\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d x])^2\,(b\,C+b\,B\,\text{Cos}[c+d x]-a\,C\,\text{Cos}[c+d x])\right)$$

Incorrect antiderivative:

$$\left\{\sqrt{a+b\,\text{Sec}[c+d x]}\,\left(a\,b\,B-a^2\,C+b^2\,B\,\text{Sec}[c+d x]+b^2\,C\,\text{Sec}[c+d x]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,b\,(a+b)\,(3\,b\,B+a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\left(2\,\left(3\,a^2\,b\,B-6\,a\,b^2\,B-3\,b^3\,B-3\,a^3\,C+3\,a^2\,b\,C-a\,b^2\,C-b^3\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]\right)\Big/\left(3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{4\,a^2\,(b\,B-a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b\,(3\,b\,B+a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{3\,d}+\frac{2\,b^2\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}[c+d\,x]}{3\,d}$$

$$\Bigg(2\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,(b\,B-a\,C+b\,C\,\text{Sec}[c+d\,x])$$

$$\Bigg(3\,a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-6\,a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-2\,a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$3\,a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,B\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+a^2\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$a\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+6\,i\,a^2\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,a^3\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+6\,i\,a^2\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$6\,i\,a^3\,C\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,b\,(3\,b\,B+a\,C)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}$$

$$\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}+$$

$$i\,(a-b)\left(-3\,a\,b\,B+b^2\,(3\,B-C)+3\,a^2\,C\right)\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\left.\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{a+b}}\right)\Bigg)\Bigg/$$

$$\left(3\sqrt{\frac{-a+b}{a+b}}\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(b\,C+b\,B\,\mathrm{Cos}[c+d\,x]-a\,C\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{\frac{1}{1-\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\left(-1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)\left(1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2\right)^{3/2}$$

$$\left.\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}(c+d\,x)\right]^2}}\right)+$$

$$\frac{\mathrm{Cos}[c+d\,x]^2\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,(b\,B-a\,C+b\,C\,\mathrm{Sec}[c+d\,x])\left(\frac{2}{3}\,b\,(3\,b\,B+a\,C)\,\mathrm{Sin}[c+d\,x]+\frac{2}{3}\,b^2\,C\,\mathrm{Tan}[c+d\,x]\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(b\,C+b\,B\,\mathrm{Cos}[c+d\,x]-a\,C\,\mathrm{Cos}[c+d\,x])}$$

Incorrect antiderivative:

$$\left\{\frac{a\,b\,B-a^2\,C+b^2\,B\,\mathrm{Sec}[c+d\,x]+b^2\,C\,\mathrm{Sec}[c+d\,x]^2}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,b\,(a+b)\,C\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(a\,b\,B-b^2\,B-a^2\,C-b^2\,C\right)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{4\,a\,(b\,B-a\,C)\,\sqrt{1+\text{Cos}[c+d\,x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{(a+b)\,(1+\text{Cos}[c+d\,x])}}\,\text{EllipticPi}\left[-1,\,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,-\frac{-a+b}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b\,C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]}{d}$$

$$\frac{2\,b\,C\,\text{Cos}[c+d\,x]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,(b\,B-a\,C+b\,C\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{d\,(b\,C+b\,B\,\text{Cos}[c+d\,x]-a\,C\,\text{Cos}[c+d\,x])}+$$

$$\Bigg(2\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,(b\,B-a\,C+b\,C\,\text{Sec}[c+d\,x])\,\Bigg(a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-2\,a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+a\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+2\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}$$

$$\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}+2\,i\,a\,b\,B\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\right.$$

$$\left.\frac{a+b}{a-b}\right]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2\,\sqrt{1-\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$2\,i\,a^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]\,\text{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,b\,C\,\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\,(a\,C+b\,(-B+C))\,\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Bigg/$$

$$\left(\sqrt{\frac{-a+b}{a+b}}\,d\,\sqrt{b+a\,\text{Cos}[c+d x]}\,(b\,C+b\,B\,\text{Cos}[c+d x]-a\,C\,\text{Cos}[c+d x])\,\text{Sec}[c+d x]^{3/2}\right.$$

$$\sqrt{\frac{1}{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\left(-1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)^{3/2}$$

$$\left.\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}}\right)$$

Incorrect antiderivative:

$$\left\{\frac{a\,b\,B-a^2\,C+b^2\,B\,\text{Sec}[c+d x]+b^2\,C\,\text{Sec}[c+d x]^2}{(a+b\,\text{Sec}[c+d x])^{7/2}},\,x,\,9,\,0\right\}$$

$$\frac{2\,b\,\left(7\,a^2\,b\,B-3\,b^3\,B-11\,a^3\,C+3\,a\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticE}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{3\,a^2\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\left(2\,\left(3\,a^2\,b\,B+3\,a\,b^2\,B-2\,b^3\,B-3\,a^3\,C-6\,a^2\,b\,C+a\,b^2\,C\right)\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\right.$$

$$\left.\text{EllipticF}\left[\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]\right)\Bigg/\left(3\,a\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}\right)+$$

$$\frac{4\,(b\,B-a\,C)\,\sqrt{1+\text{Cos}[c+d x]}\,\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{(a+b)\,(1+\text{Cos}[c+d x])}}\,\text{EllipticPi}\left[-1,\text{ArcSin}\left[\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],-\frac{-a+b}{a+b}\right]}{a^2\,d\,\sqrt{\text{Cos}[c+d x]}\,\sqrt{a+b\,\text{Sec}[c+d x]}}-$$

$$\frac{2\,b\,\left(7\,a^2\,b\,B-3\,b^3\,B-11\,a^3\,C+3\,a\,b^2\,C\right)\text{Tan}\left[\frac{1}{2}(c+d x)\right]}{3\,a^2\,(a-b)\,(a+b)^2\,d\,\sqrt{a+b\,\text{Sec}[c+d x]}}+\frac{2\,b^2\,(b\,B-2\,a\,C)\,\text{Tan}[c+d x]}{3\,a\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d x])^{3/2}}$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])^3\,\mathrm{Sec}[c+d\,x]^2\,(b\,B-a\,C+b\,C\,\mathrm{Sec}[c+d\,x])$$

$$\Bigg(\frac{2\,b\,\left(-7\,a^2\,b\,B+3\,b^3\,B+11\,a^3\,C-3\,a\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{3\,a^2\,\left(-a^2+b^2\right)^2}+\frac{2\,\left(b^4\,B\,\mathrm{Sin}[c+d\,x]-2\,a\,b^3\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^2\,\left(-a^2+b^2\right)\,(b+a\,\mathrm{Cos}[c+d\,x])^2}-$$

$$\frac{2\,\left(-8\,a^2\,b^3\,B\,\mathrm{Sin}[c+d\,x]+4\,b^5\,B\,\mathrm{Sin}[c+d\,x]+13\,a^3\,b^2\,C\,\mathrm{Sin}[c+d\,x]-5\,a\,b^4\,C\,\mathrm{Sin}[c+d\,x]\right)}{3\,a^2\,\left(-a^2+b^2\right)^2\,(b+a\,\mathrm{Cos}[c+d\,x])}\Bigg)\Bigg)\Big/$$

$$\left(d\,(b\,C+b\,B\,\mathrm{Cos}[c+d\,x]-a\,C\,\mathrm{Cos}[c+d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\right)-$$

$$\Bigg(2\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Sec}[c+d\,x]^{3/2}\,(b\,B-a\,C+b\,C\,\mathrm{Sec}[c+d\,x])\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{1+\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}}$$

$$\Bigg(-7\,a^3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-7\,a^2\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$3\,a\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+3\,b^5\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+11\,a^4\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$11\,a^3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,a^2\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]-3\,a\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]+$$

$$14\,a^3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-6\,a\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-22\,a^4\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3+$$

$$6\,a^2\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^3-7\,a^3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+7\,a^2\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$3\,a\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,b^5\,\sqrt{\frac{-a+b}{a+b}}\,B\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+11\,a^4\,b\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-$$

$$11\,a^3\,b^2\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5-3\,a^2\,b^3\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+3\,a\,b^4\,\sqrt{\frac{-a+b}{a+b}}\,C\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^5+$$

$$6\,i\,a^4\,b\,B\,\mathrm{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}\,\sqrt{\frac{a+b-a\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2+b\,\mathrm{Tan}\left[\frac{1}{2}\,(c+d\,x)\right]^2}{a+b}}-$$

$$12\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$6\, i\, b^5 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 6\, i\, a^5 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$12\, i\, a^3 b^2 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} - 6\, i\, a\, b^4 C\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$6\, i\, a^4 b\, B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} -$$

$$12\, i\, a^2 b^3 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2 \sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2} \sqrt{\frac{a+b-a\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}} +$$

$$6\, i\, b^5 B\, \text{EllipticPi}\left[-\frac{a+b}{a-b}, i\, \text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\, \text{Tan}\left[\frac{1}{2}(c+d x)\right]\right], \frac{a+b}{a-b}\right] \text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$6\,i\,a^5\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$12\,i\,a^3\,b^2\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$6\,i\,a\,b^4\,C\,\text{EllipticPi}\left[-\frac{a+b}{a-b},\,i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}-$$

$$i\,(a-b)\,b\,\left(-7\,a^2\,b\,B+3\,b^3\,B+11\,a^3\,C-3\,a\,b^2\,C\right)\text{EllipticE}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]$$

$$\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}+$$

$$i\,(a-b)\,\left(6\,b^4\,B-3\,a^3\,b\,(B-4\,C)+2\,a\,b^3\,(2\,B-3\,C)+3\,a^4\,C-a^2\,b^2\,(9\,B+5\,C)\right)$$

$$\text{EllipticF}\left[i\,\text{ArcSinh}\left[\sqrt{\frac{-a+b}{a+b}}\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]\right],\,\frac{a+b}{a-b}\right]\sqrt{1-\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}$$

$$\left(1+\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\sqrt{\frac{a+b-a\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2+b\,\text{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{a+b}}\Bigg)\Bigg)\Big/$$

$$\left(3 a^2 \sqrt{\frac{-a+b}{a+b}} \left(a^2-b^2\right)^2 d \left(b C+b B \operatorname{Cos}[c+d x]-a C \operatorname{Cos}[c+d x]\right) (a+b \operatorname{Sec}[c+d x])^{5/2} \left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]\right) \sqrt{\frac{1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}{1-\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2}} \left(a\left(-1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)-b\left(1+\operatorname{Tan}\left[\frac{1}{2}(c+d x)\right]^2\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Sec}[c+d x]^{5/2} (a+b \operatorname{Sec}[c+d x]) \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 9, 0\right\}$$

$$-\frac{2 (9 A b+9 a B+7 b C) \sqrt{\operatorname{Cos}[c+d x]}\ \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{15 d}+\frac{2 (7 a A+5 b B+5 a C) \sqrt{\operatorname{Cos}[c+d x]}\ \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{21 d}+\frac{2 (9 A b+9 a B+7 b C) \sqrt{\operatorname{Sec}[c+d x]}\ \operatorname{Sin}[c+d x]}{15 d}+\frac{2 (7 a A+5 b B+5 a C) \operatorname{Sec}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{21 d}+\frac{2 (9 A b+9 a B+7 b C) \operatorname{Sec}[c+d x]^{5/2} \operatorname{Sin}[c+d x]}{45 d}+\frac{2 (9 b B+2 a C) \operatorname{Sec}[c+d x]^{7/2} \operatorname{Sin}[c+d x]}{63 d}+\frac{2 C \operatorname{Sec}[c+d x]^{7/2} (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{9 d}$$

$$-\left(6\sqrt{2}\,A\,b\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^3\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\,a\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^3\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(14\sqrt{2}\,b\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^3\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\frac{4\,a\,A\,\mathrm{Cos}[c+dx]^{7/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{20\,b\,B\,\mathrm{Cos}[c+dx]^{7/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{20\,a\,C\,\mathrm{Cos}[c+dx]^{7/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+dx])\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{5/2}}$$

$$(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{4\,(9Ab+9aB+7bC)\,\mathrm{Cos}[dx]\,\mathrm{Csc}[c]}{15\,d}+\right.$$

$$\frac{4\,b\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^4\,\mathrm{Sin}[dx]}{9\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^3\,(7bC\,\mathrm{Sin}[c]+9bB\,\mathrm{Sin}[dx]+9aC\,\mathrm{Sin}[dx])}{63\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]\,(63Ab\,\mathrm{Sin}[c]+63aB\,\mathrm{Sin}[c]+49bC\,\mathrm{Sin}[c]+105aA\,\mathrm{Sin}[dx]+75bB\,\mathrm{Sin}[dx]+75aC\,\mathrm{Sin}[dx])}{315\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+dx]^2\,(45bB\,\mathrm{Sin}[c]+45aC\,\mathrm{Sin}[c]+63Ab\,\mathrm{Sin}[dx]+63aB\,\mathrm{Sin}[dx]+49bC\,\mathrm{Sin}[dx])}{315\,d}+$$

$$\left.\frac{4\,(7aA+5bB+5aC)\,\mathrm{Tan}[c]}{21\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Sec}[c+dx]^{3/2}\,(a+b\,\mathrm{Sec}[c+dx])\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,(7\,A\,b+7\,a\,B+5\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{2\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{5\,d}+\frac{2\,(7\,A\,b+7\,a\,B+5\,b\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{2\,(7\,b\,B+2\,a\,C)\,\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$-\left(2\sqrt{2}\;a\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)\,(a+b\,\text{Sec}[c+d\,x])$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\sqrt{2}\;b\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\sqrt{2}\;a\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{4\,A\,b\,\text{Cos}[c+d\,x]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a\,B\,\text{Cos}[c+d\,x]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,b\,C\,\text{Cos}[c+d\,x]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\left((a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{4\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\text{Cos}[d\,x]\,\text{Csc}[c]}{5\,d}+\right.\right.$$

$$\frac{4\,b\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{7\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,(5\,b\,C\,\text{Sin}[c]+7\,b\,B\,\text{Sin}[d\,x]+7\,a\,C\,\text{Sin}[d\,x])}{35\,d}+$$

$$\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,(21\,b\,B\,\text{Sin}[c]+21\,a\,C\,\text{Sin}[c]+35\,A\,b\,\text{Sin}[d\,x]+35\,a\,B\,\text{Sin}[d\,x]+25\,b\,C\,\text{Sin}[d\,x])}{105\,d}+$$

$$\left.\left.\frac{4\,(7\,A\,b+7\,a\,B+5\,b\,C)\,\text{Tan}[c]}{21\,d}\right)\right)\Big/\left((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(5\,A\,b+5\,a\,B+3\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,(3\,a\,A+b\,B+a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+\frac{2\,(5\,A\,b+5\,a\,B+3\,b\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}+$$

$$\frac{2\,(5\,b\,B+2\,a\,C)\,\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$-\left(2\sqrt{2}\,A\,b\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^3\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(2\sqrt{2}\,a\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^3\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\,b\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^3\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\frac{4\,a\,A\,\text{Cos}[c+dx]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{4\,b\,B\,\text{Cos}[c+dx]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{4\,a\,C\,\text{Cos}[c+dx]^{7/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\left((a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(\frac{4\,(5Ab+5aB+3bC)\,\text{Cos}[dx]\,\text{Csc}[c]}{5d}+\frac{4\,b\,C\,\text{Sec}[c]\,\text{Sec}[c+dx]^2\,\text{Sin}[dx]}{5d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+dx]\,(3bC\,\text{Sin}[c]+5bB\,\text{Sin}[dx]+5aC\,\text{Sin}[dx])}{15d}+\frac{4\,(bB+aC)\,\text{Tan}[c]}{3d}\right)\right)\Big/$$

$$\left((b+a\,\text{Cos}[c+dx])\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+dx])\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{\sqrt{\text{Sec}[c+dx]}},\,x,\,6,\,0\right\}$$

$$\frac{2\,(a\,A-b\,B-a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+$$
$$\frac{2\,(3\,A\,b+3\,a\,B+b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$
$$\frac{2\,(3\,b\,B+2\,a\,C)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,C\,\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\frac{1}{3\,d}\,e^{-i\,(2\,c+d\,x)}\,\text{Sec}[c+d\,x]^{3/2}\Big(-3\,i\,a\,A+3\,i\,b\,B+3\,i\,a\,C-3\,i\,a\,A\,\text{Cos}[2\,(c+d\,x)]+$$
$$3\,i\,b\,B\,\text{Cos}[2\,(c+d\,x)]+3\,i\,a\,C\,\text{Cos}[2\,(c+d\,x)]+2\,(3\,A\,b+3\,a\,B+b\,C)\,\text{Cos}[c+d\,x]^{3/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]-$$
$$3\,i\,(b\,B+a\,(-A+C))\,e^{-2\,i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)^{3/2}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$2\,b\,C\,\text{Sin}[c+d\,x]+3\,b\,B\,\text{Sin}[2\,(c+d\,x)]+3\,a\,C\,\text{Sin}[2\,(c+d\,x)]\Big)\,(\text{Cos}[2\,c+d\,x]+i\,\text{Sin}[2\,c+d\,x])$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,6,\,0\right\}$$

$$\frac{2\,(A\,b+a\,B-b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{d}+$$
$$\frac{2\,(a\,A+3\,b\,B+3\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-$$
$$\frac{2\,b\,(A-3\,C)\,\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{3\,d}\,\sqrt{\text{Sec}[c+d\,x]}$$
$$\Big(-6\,i\,A\,b\,\text{Cos}[c+d\,x]-6\,i\,a\,B\,\text{Cos}[c+d\,x]+6\,i\,b\,C\,\text{Cos}[c+d\,x]+2\,(3\,b\,B+a\,(A+3\,C))\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+$$
$$6\,i\,(A\,b+a\,B-b\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$
$$6\,b\,C\,\text{Sin}[c+d\,x]+a\,A\,\text{Sin}[2\,(c+d\,x)]\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,6,\,0\right\}$$

$$\frac{2\,(3\,a\,A+5\,b\,B+5\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{2\,(A\,b+a\,B+3\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}+$$
$$\frac{2\,(2\,A\,b+5\,a\,B)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\sqrt{\text{Sec}[c+d\,x]}\,\Big(20\,(A\,b+a\,B+3\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$12\,i\,(3\,a\,A+5\,b\,B+5\,a\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$2\,\text{Cos}[c+d\,x]\,(10\,(A\,b+a\,B)\,\text{Sin}[c+d\,x]+3\,(-2\,i\,(3\,a\,A+5\,b\,B+5\,a\,C)+a\,A\,\text{Sin}[2\,(c+d\,x)]))\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\frac{(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\Big\}$$

$$\frac{2\,(3\,A\,b+3\,a\,B+5\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$
$$\frac{2\,(5\,a\,A+7\,b\,B+7\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$
$$\frac{2\,(2\,A\,b+7\,a\,B)\,\text{Sin}[c+d\,x]}{35\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,(5\,a\,A+7\,b\,B+7\,a\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\sqrt{\text{Sec}[c+d\,x]}$$
$$\Big(40\,(5\,a\,A+7\,b\,B+7\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+168\,i\,(3\,A\,b+3\,a\,B+5\,b\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}$$
$$\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+2\,\text{Cos}[c+d\,x]\,(5\,(23\,a\,A+28\,b\,B+28\,a\,C)\,\text{Sin}[c+d\,x]+$$
$$3\,(14\,(A\,b+a\,B)\,\text{Sin}[2\,(c+d\,x)]-i\,(84\,A\,b+84\,a\,B+140\,b\,C+5\,i\,a\,A\,\text{Sin}[3\,(c+d\,x)])))\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\frac{(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\,x,\,8,\,0\Big\}$$

$$\frac{2\,(7\,a\,A+9\,b\,B+9\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+$$
$$\frac{2\,(5\,A\,b+5\,a\,B+7\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]\,\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+\frac{2\,(2\,A\,b+9\,a\,B)\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$
$$\frac{2\,(7\,a\,A+9\,b\,B+9\,a\,C)\,\text{Sin}[c+d\,x]}{45\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\,(5\,A\,b+5\,a\,B+7\,b\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{2520\,d}\sqrt{\text{Sec}[c+d\,x]}\,\Big(240\,(5\,A\,b+5\,a\,B+7\,b\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]+$$
$$336\,i\,(7\,a\,A+9\,b\,B+9\,a\,C)\,e^{-i\,(c+d\,x)}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\Big]+$$
$$2\,\text{Cos}[c+d\,x]\,(-1176\,i\,a\,A-1512\,i\,b\,B-1512\,i\,a\,C+30\,(23\,A\,b+23\,a\,B+28\,b\,C)\,\text{Sin}[c+d\,x]+$$
$$14\,(19\,a\,A+18\,b\,B+18\,a\,C)\,\text{Sin}[2\,(c+d\,x)]+90\,A\,b\,\text{Sin}[3\,(c+d\,x)]+90\,a\,B\,\text{Sin}[3\,(c+d\,x)]+35\,a\,A\,\text{Sin}[4\,(c+d\,x)])\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\Big\}$$

$$-\frac{2\left(15a^2A+9Ab^2+18abB+9a^2C+7b^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{15d}+$$

$$\frac{2\left(14aAb+7a^2B+5b^2B+10abC\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21d}+$$

$$\frac{2\left(15a^2A+9Ab^2+18abB+9a^2C+7b^2C\right)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{15d}+$$

$$\frac{2\left(14aAb+7a^2B+5b^2B+10abC\right)\text{Sec}[c+dx]^{3/2}\text{Sin}[c+dx]}{21d}+$$

$$\frac{2\left(63Ab^2+81abB+8a^2C+49b^2C\right)\text{Sec}[c+dx]^{5/2}\text{Sin}[c+dx]}{315d}+$$

$$\frac{2(9bB+4aC)\text{Sec}[c+dx]^{5/2}(a+b\text{Sec}[c+dx])\text{Sin}[c+dx]}{63d}+\frac{2C\text{Sec}[c+dx]^{5/2}(a+b\text{Sec}[c+dx])^2\text{Sin}[c+dx]}{9d}$$

$$-\left(2\sqrt{2}\,a^2A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\text{Sec}[c+dx])^2$$

$$\left.\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)\right)\Big/\left(d(b+a\text{Cos}[c+dx])^2(A+2C+2B\text{Cos}[c+dx]+A\text{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\,Ab^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\text{Sec}[c+dx])^2\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d(b+a\text{Cos}[c+dx])^2(A+2C+2B\text{Cos}[c+dx]+A\text{Cos}[2c+2dx])\right)-$$

$$\left(12\sqrt{2}\,abB\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\text{Sec}[c+dx])^2\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d(b+a\text{Cos}[c+dx])^2(A+2C+2B\text{Cos}[c+dx]+A\text{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\,a^2 C e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(14\sqrt{2}\,b^2 C e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^4\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\frac{8aAb\,\text{Cos}[c+dx]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{4a^2B\,\text{Cos}[c+dx]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{3d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{20b^2B\,\text{Cos}[c+dx]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{21d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{40abC\,\text{Cos}[c+dx]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{21d\,(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+dx])^2\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\,\text{Sec}[c+dx]^{7/2}}$$

$$(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\left(\frac{4\left(15a^2A+9Ab^2+18abB+9a^2C+7b^2C\right)\text{Cos}[dx]\,\text{Csc}[c]}{15d}+\right.$$

$$\frac{4b^2C\,\text{Sec}[c]\,\text{Sec}[c+dx]^4\,\text{Sin}[dx]}{9d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+dx]^3\left(7b^2C\,\text{Sin}[c]+9b^2B\,\text{Sin}[dx]+18abC\,\text{Sin}[dx]\right)}{63d}+$$

$$\frac{1}{315d}4\,\text{Sec}[c]\,\text{Sec}[c+dx]\left(63Ab^2\,\text{Sin}[c]+126abB\,\text{Sin}[c]+63a^2C\,\text{Sin}[c]+49b^2C\,\text{Sin}[c]+210aAb\,\text{Sin}[dx]+\right.$$

$$\left.105a^2B\,\text{Sin}[dx]+75b^2B\,\text{Sin}[dx]+150abC\,\text{Sin}[dx]\right)+\frac{1}{315d}4\,\text{Sec}[c]\,\text{Sec}[c+dx]^2\left(45b^2B\,\text{Sin}[c]+90abC\,\text{Sin}[c]+\right.$$

$$\left.\left.63Ab^2\,\text{Sin}[dx]+126abB\,\text{Sin}[dx]+63a^2C\,\text{Sin}[dx]+49b^2C\,\text{Sin}[dx]\right)+\frac{4\left(14aAb+7a^2B+5b^2B+10abC\right)\text{Tan}[c]}{21d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),\ x,\ 8,\ 0\right\}$$

$$-\frac{2\left(10\,a\,A\,b+5\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\left(21\,a^2\,A+7\,A\,b^2+14\,a\,b\,B+7\,a^2\,C+5\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{2\left(10\,a\,A\,b+5\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{5\,d}+$$

$$\frac{2\left(35\,A\,b^2+49\,a\,b\,B+8\,a^2\,C+25\,b^2\,C\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,(7\,b\,B+4\,a\,C)\,\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d}$$

$$-\left(4\sqrt{2}\;a\,A\,b\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2\sqrt{2}\;a^2\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\sqrt{2}\;b^2\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(12\sqrt{2}\;a\,b\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\right.$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Big)\Big/$$

$$\left(5 d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+$$

$$\frac{4 a^2 A\,\text{Cos}[c+d x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 A b^2\,\text{Cos}[c+d x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{8 a b B\,\text{Cos}[c+d x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^2 C\,\text{Cos}[c+d x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{20 b^2 C\,\text{Cos}[c+d x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{21 d\,(b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\Bigg((a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Bigg(\frac{4\left(10 a A b+5 a^2 B+3 b^2 B+6 a b C\right)\text{Cos}[d x]\,\text{Csc}[c]}{5 d}+$$

$$\frac{4 b^2 C\,\text{Sec}[c]\,\text{Sec}[c+d x]^3\,\text{Sin}[d x]}{7 d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d x]^2\left(5 b^2 C\,\text{Sin}[c]+7 b^2 B\,\text{Sin}[d x]+14 a b C\,\text{Sin}[d x]\right)}{35 d}+$$

$$\frac{1}{105 d}4\,\text{Sec}[c]\,\text{Sec}[c+d x]\left(21 b^2 B\,\text{Sin}[c]+42 a b C\,\text{Sin}[c]+35 A b^2\,\text{Sin}[d x]+70 a b B\,\text{Sin}[d x]+\right.$$

$$\left.35 a^2 C\,\text{Sin}[d x]+25 b^2 C\,\text{Sin}[d x]\right)+\frac{4\left(7 A b^2+14 a b B+7 a^2 C+5 b^2 C\right)\text{Tan}[c]}{21 d}\Bigg)\Bigg)\Big/$$

$$\left((b+a\,\text{Cos}[c+d x])^2\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,\text{Sec}[c+d x]^{7/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d x])^2\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{\sqrt{\text{Sec}[c+d x]}},x,7,0\right\}$$

$$\frac{2\left(5 a^2 A-5 A b^2-10 a b B-5 a^2 C-3 b^2 C\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+$$

$$\frac{2\left(6 a A b+3 a^2 B+b^2 B+2 a b C\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}+$$

$$\frac{2\left(15 A b^2+25 a b B+8 a^2 C+9 b^2 C\right)\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15 d}+$$

$$\frac{2\left(5 b B+4 a C\right)\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])\,\text{Sin}[c+d x]}{15 d}+\frac{2 C\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\,\text{Sin}[c+d x]}{5 d}$$

$$\left(2\sqrt{2}\,a^2 A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,A\,b^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(4\sqrt{2}\,a\,b\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,a^2\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\,b^2\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{8\,a\,A\,b\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^2\,B\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^2\,B\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{8\,a\,b\,C\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\Bigg((a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{2\left(5\,a^2\,A-10\,A\,b^2-20\,a\,b\,B-10\,a^2\,C-6\,b^2\,C+5\,a^2\,A\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]}{5\,d}+\frac{4\,a^2\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+$$

$$\frac{4\,b^2\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{5\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(3\,b^2\,C\,\mathrm{Sin}[c]+5\,b^2\,B\,\mathrm{Sin}[d\,x]+10\,a\,b\,C\,\mathrm{Sin}[d\,x]\right)}{15\,d}+$$

$$\frac{4\,b\,(b\,B+2\,a\,C)\,\mathrm{Tan}[c]}{3\,d}\Bigg)\Bigg)\Big/\left((b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$\frac{2\left(2\,a\,A\,b+a^2\,B-b^2\,B-2\,a\,b\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d}+$$

$$\frac{2\left(a^2\,A+3\,A\,b^2+6\,a\,b\,B+3\,a^2\,C+b^2\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d}-$$

$$\frac{2\,b\,(a\,A-3\,b\,B-5\,a\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}-$$

$$\frac{2\,b\,(A-C)\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left(4\sqrt{2}\,a\,A\,b\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(2\sqrt{2}\,a^2\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(2\sqrt{2}\,b^2\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(4\sqrt{2}\,a\,b\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^4\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\frac{4\,a^2\,A\,\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{4\,A\,b^2\,\mathrm{Cos}[c+dx]^{9/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+dx])^2\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{8\,a\,b\,B\,\text{Cos}[c+d\,x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^2\,C\,\text{Cos}[c+d\,x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^2\,C\,\text{Cos}[c+d\,x]^{9/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\left((a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{2\left(2\,a\,A\,b+a^2\,B-2\,b^2\,B-4\,a\,b\,C+2\,a\,A\,b\,\text{Cos}[2\,c]+a^2\,B\,\text{Cos}[2\,c]\right)\text{Cos}[d\,x]\,\text{Csc}[c]}{d}+\frac{2\,a^2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{3\,d}+\right.$$

$$\left.\left.\frac{4\,a\,(2\,A\,b+a\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{d}+\frac{4\,b^2\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,a^2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{3\,d}+\frac{4\,b^2\,C\,\text{Tan}[c]}{3\,d}\right)\right)\Big/$$

$$\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{5/2}},\,x,\,7,\,0\right\}$$

$$\frac{2\left(3\,a^2\,A+5\,A\,b^2+10\,a\,b\,B+5\,a^2\,C-5\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\left(2\,a\,A\,b+a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,d}-$$

$$\frac{2\,b\,(7\,A\,b+5\,a\,B-15\,b\,C)\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+$$

$$\frac{2\,(4\,A\,b+5\,a\,B)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\text{Sec}[c+d\,x]^{3/2}}$$

$$\frac{1}{30\,d}\sqrt{\text{Sec}[c+d\,x]}\left(-36\,i\,a^2\,A\,\text{Cos}[c+d\,x]-60\,i\,A\,b^2\,\text{Cos}[c+d\,x]-120\,i\,a\,b\,B\,\text{Cos}[c+d\,x]-60\,i\,a^2\,C\,\text{Cos}[c+d\,x]+\right.$$

$$60\,i\,b^2\,C\,\text{Cos}[c+d\,x]+20\left(a^2\,B+3\,b^2\,B+2\,a\,b\,(A+3\,C)\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+$$

$$12\,i\left(10\,a\,b\,B+5\,b^2\,(A-C)+a^2\,(3\,A+5\,C)\right)e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+$$

$$\left.3\,a^2\,A\,\text{Sin}[c+d\,x]+60\,b^2\,C\,\text{Sin}[c+d\,x]+20\,a\,A\,b\,\text{Sin}[2\,(c+d\,x)]+10\,a^2\,B\,\text{Sin}[2\,(c+d\,x)]+3\,a^2\,A\,\text{Sin}[3\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\,x,\,7,\,0\right\}$$

$$\frac{2\left(6aAb+3a^2B+5b^2B+10abC\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5d}+$$
$$\frac{2\left(5a^2A+7Ab^2+14abB+7a^2C+21b^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21d}+$$
$$\frac{2\left(25a^2A+8Ab^2+49abB+35a^2C\right)\text{Sin}[c+dx]}{105d\sqrt{\text{Sec}[c+dx]}}+$$
$$\frac{2(4Ab+7aB)(a+b\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{35d\,\text{Sec}[c+dx]^{3/2}}+\frac{2A(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{7d\,\text{Sec}[c+dx]^{5/2}}$$

$$\frac{1}{420d}\sqrt{\text{Sec}[c+dx]}\left(40\left(14abB+7b^2(A+3C)+a^2(5A+7C)\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]+\right.$$
$$168\,i\left(3a^2B+5b^2B+2ab(3A+5C)\right)e^{-i(c+dx)}\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]+$$
$$2\,\text{Cos}[c+dx]\left(5\left(28Ab^2+56abB+a^2(23A+28C)\right)\text{Sin}[c+dx]+\right.$$
$$\left.\left.3\left(-28\,i\left(6aAb+3a^2B+5b^2B+10abC\right)+14a(2Ab+aB)\,\text{Sin}[2(c+dx)]+5a^2A\,\text{Sin}[3(c+dx)]\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+dx])^2\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{\text{Sec}[c+dx]^{9/2}},x,8,0\right\}$$

$$\frac{2\left(7a^2A+9Ab^2+18abB+9a^2C+15b^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{15d}+$$
$$\frac{2\left(10aAb+5a^2B+7b^2B+14abC\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21d}+$$
$$\frac{2\left(49a^2A+8Ab^2+81abB+63a^2C\right)\text{Sin}[c+dx]}{315d\,\text{Sec}[c+dx]^{3/2}}+\frac{2\left(10aAb+5a^2B+7b^2B+14abC\right)\text{Sin}[c+dx]}{21d\sqrt{\text{Sec}[c+dx]}}+$$
$$\frac{2(4Ab+9aB)(a+b\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{63d\,\text{Sec}[c+dx]^{5/2}}+\frac{2A(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{9d\,\text{Sec}[c+dx]^{7/2}}$$

$$\frac{1}{2520d}\sqrt{\text{Sec}[c+dx]}\left(240\left(5a^2B+7b^2B+2ab(5A+7C)\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]+\right.$$
$$336\,i\left(18abB+3b^2(3A+5C)+a^2(7A+9C)\right)e^{-i(c+dx)}\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]+$$
$$2\,\text{Cos}[c+dx]\left(-1176\,i\,a^2A-1512\,i\,Ab^2-3024\,i\,abB-1512\,i\,a^2C-2520\,i\,b^2C+\right.$$
$$30\left(46aAb+23a^2B+28b^2B+56abC\right)\text{Sin}[c+dx]+14\left(18Ab^2+36abB+a^2(19A+18C)\right)\text{Sin}[2(c+dx)]+$$
$$\left.\left.180aAb\,\text{Sin}[3(c+dx)]+90a^2B\,\text{Sin}[3(c+dx)]+35a^2A\,\text{Sin}[4(c+dx)]\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+dx]}\ (a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right),x,9,0\right\}$$

$$-\frac{2\left(45a^2Ab+9Ab^3+15a^3B+27ab^2B+27a^2bC+7b^3C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{15d}+$$

$$\frac{2\left(21a^3A+21aAb^2+21a^2bB+5b^3B+7a^3C+15ab^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21d}+$$

$$\frac{2\left(45a^2Ab+9Ab^3+15a^3B+27ab^2B+27a^2bC+7b^3C\right)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{15d}+$$

$$\frac{2\left(252aAb^2+171a^2bB+75b^3B+16a^3C+176ab^2C\right)\text{Sec}[c+dx]^{3/2}\ \text{Sin}[c+dx]}{315d}+$$

$$\frac{2\left(63Ab^2+99abB+24a^2C+49b^2C\right)\text{Sec}[c+dx]^{3/2}\ (a+b\,\text{Sec}[c+dx])\ \text{Sin}[c+dx]}{315d}+$$

$$\frac{2(3bB+2aC)\ \text{Sec}[c+dx]^{3/2}\ (a+b\,\text{Sec}[c+dx])^2\ \text{Sin}[c+dx]}{21d}+\frac{2C\,\text{Sec}[c+dx]^{3/2}\ (a+b\,\text{Sec}[c+dx])^3\ \text{Sin}[c+dx]}{9d}$$

$$-\left(6\sqrt{2}\ a^2Ab\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}[c+dx]^5\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\text{Sec}[c+dx])^3$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(b+a\,\text{Cos}[c+dx])^3\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(6\sqrt{2}\ Ab^3\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}[c+dx]^5\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\text{Cos}[c+dx])^3\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(2\sqrt{2}\ a^3B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}[c+dx]^5\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+dx])^3\,(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(18\sqrt{2}\,a\,b^2\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\right.$$
$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$
$$\left(18\sqrt{2}\,a^2\,b\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\right.$$
$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-\left(14\sqrt{2}\,b^3\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$
$$\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$
$$\frac{4\,a^3\,A\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{4\,a\,A\,b^2\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{4\,a^2\,b\,B\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{20\,b^3\,B\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$
$$\frac{4\,a^3\,C\,\mathrm{Cos}[c+dx]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,a\,b^2\,C\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(\frac{4\,\left(45\,a^2\,A\,b+9\,A\,b^3+15\,a^3\,B+27\,a\,b^2\,B+27\,a^2\,b\,C+7\,b^3\,C\right)\,\text{Cos}[d\,x]\,\text{Csc}[c]}{15\,d}+\right.$$

$$\frac{4\,b^3\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{9\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\left(7\,b^3\,C\,\text{Sin}[c]+9\,b^3\,B\,\text{Sin}[d\,x]+27\,a\,b^2\,C\,\text{Sin}[d\,x]\right)}{63\,d}+$$

$$\frac{1}{315\,d}\,4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(63\,A\,b^3\,\text{Sin}[c]+189\,a\,b^2\,B\,\text{Sin}[c]+189\,a^2\,b\,C\,\text{Sin}[c]+49\,b^3\,C\,\text{Sin}[c]+315\,a\,A\,b^2\,\text{Sin}[d\,x]+\right.$$

$$\left.315\,a^2\,b\,B\,\text{Sin}[d\,x]+75\,b^3\,B\,\text{Sin}[d\,x]+105\,a^3\,C\,\text{Sin}[d\,x]+225\,a\,b^2\,C\,\text{Sin}[d\,x]\right)+\frac{1}{315\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2$$

$$\left(45\,b^3\,B\,\text{Sin}[c]+135\,a\,b^2\,C\,\text{Sin}[c]+63\,A\,b^3\,\text{Sin}[d\,x]+189\,a\,b^2\,B\,\text{Sin}[d\,x]+189\,a^2\,b\,C\,\text{Sin}[d\,x]+49\,b^3\,C\,\text{Sin}[d\,x]\right)+$$

$$\left.\frac{4\,\left(21\,a\,A\,b^2+21\,a^2\,b\,B+5\,b^3\,B+7\,a^3\,C+15\,a\,b^2\,C\right)\,\text{Tan}[c]}{21\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Sec}[c+d\,x]}},\,x,\,8,\,0\right\}$$

$$\frac{2\,\left(5\,a^3\,A-15\,a\,A\,b^2-15\,a^2\,b\,B-3\,b^3\,B-5\,a^3\,C-9\,a\,b^2\,C\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,d}+$$

$$\frac{2\,\left(63\,a^2\,A\,b+7\,A\,b^3+21\,a^3\,B+21\,a\,b^2\,B+21\,a^2\,b\,C+5\,b^3\,C\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{2\,\left(280\,a\,A\,b^2+231\,a^2\,b\,B+63\,b^3\,B+48\,a^3\,C+164\,a\,b^2\,C\right)\,\sqrt{\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,\left(35\,A\,b^2+63\,a\,b\,B+24\,a^2\,C+25\,b^2\,C\right)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,(7\,b\,B+6\,a\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,C\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\left(2\,\sqrt{2}\,a^3\,A\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-\Bigg(6\sqrt{2}\;a\,A\,b^2\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-\Bigg(6\sqrt{2}\;a^2\,b\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(6\sqrt{2}\;b^3\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-\Bigg(2\sqrt{2}\;a^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(18\sqrt{2}\;a\,b^2\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\text{Sec}[c+d x])^3$$

$$\left.\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\right)\Big/\left(5 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+$$

$$\frac{12 a^2 A b\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 A b^3\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^3 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a b^2 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^2 b C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{20 b^3 C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{21 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,\text{Sec}[c+d x]^{9/2}}$$

$$(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)$$

$$\left(-\frac{2\left(5 a^3 A-30 a A b^2-30 a^2 b B-6 b^3 B-10 a^3 C-18 a b^2 C+5 a^3 A\,\text{Cos}[2 c]\right)\text{Cos}[d x]\,\text{Csc}[c]}{5 d}+\frac{4 a^3 A\,\text{Cos}[c]\,\text{Sin}[d x]}{d}+\right.$$

$$\frac{4 b^3 C\,\text{Sec}[c]\,\text{Sec}[c+d x]^3\,\text{Sin}[d x]}{7 d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d x]^2\left(5 b^3 C\,\text{Sin}[c]+7 b^3 B\,\text{Sin}[d x]+21 a b^2 C\,\text{Sin}[d x]\right)}{35 d}+$$

$$\frac{1}{105 d}4\,\text{Sec}[c]\,\text{Sec}[c+d x]\left(21 b^3 B\,\text{Sin}[c]+63 a b^2 C\,\text{Sin}[c]+35 A b^3\,\text{Sin}[d x]+105 a b^2 B\,\text{Sin}[d x]+\right.$$

$$\left.\left.105 a^2 b C\,\text{Sin}[d x]+25 b^3 C\,\text{Sin}[d x]\right)+\frac{4 b\left(7 A b^2+21 a b B+21 a^2 C+5 b^2 C\right)\text{Tan}[c]}{21 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{3/2}},x,8,0\right\}$$

$$\frac{2\left(15 a^2 A b-5 A b^3+5 a^3 B-15 a b^2 B-15 a^2 b C-3 b^3 C\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{5 d}+$$

$$\frac{2\left(a^3 A+9 a A b^2+9 a^2 b B+b^3 B+3 a^3 C+3 a b^2 C\right)\sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{3 d}-$$

$$\frac{2 b\left(5 a^2 A-15 A b^2-40 a b B-33 a^2 C-9 b^2 C\right)\sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15 d}-$$

$$\frac{2 b\,(5 a A-5 b B-9 a C)\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])\,\text{Sin}[c+d x]}{15 d}-$$

$$\frac{2 b\,(5 A-3 C)\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2\,\text{Sin}[c+d x]}{15 d}+\frac{2 A\,(a+b\,\text{Sec}[c+d x])^3\,\text{Sin}[c+d x]}{3 d\sqrt{\text{Sec}[c+d x]}}$$

$$\left(6\sqrt{2}\,a^2 A b\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\right.$$
$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,A b^3\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$
$$\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$
$$\left(2\sqrt{2}\,a^3 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\right.$$
$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(6\sqrt{2}\,a b^2 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$
$$\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$
$$\left.(a+b\,\mathrm{Sec}[c+dx])^3\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^3\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(6\sqrt{2}\,a^2 b C\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$
$$\mathrm{Cos}[c+dx]^5\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(6\sqrt{2}\,b^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^3$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{4\,a^3\,A\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{12\,a\,A\,b^2\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{12\,a^2\,b\,B\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^3\,B\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^3\,C\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a\,b^2\,C\,\mathrm{Cos}[c+d\,x]^{11/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\Bigg((a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{2\left(15\,a^2\,A\,b-10\,A\,b^3+5\,a^3\,B-30\,a\,b^2\,B-30\,a^2\,b\,C-6\,b^3\,C+15\,a^2\,A\,b\,\mathrm{Cos}[2\,c]+5\,a^3\,B\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]}{5\,d}+$$

$$\frac{2\,a^3\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{3\,d}+\frac{4\,a^2\,(3\,A\,b+a\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{4\,b^3\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{5\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(3\,b^3\,C\,\mathrm{Sin}[c]+5\,b^3\,B\,\mathrm{Sin}[d\,x]+15\,a\,b^2\,C\,\mathrm{Sin}[d\,x]\right)}{15\,d}+\frac{2\,a^3\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{3\,d}+$$

$$\frac{4\,b^2\,(b\,B+3\,a\,C)\,\mathrm{Tan}[c]}{3\,d}\Bigg)\Bigg)\Bigg/\left((b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{5/2}},x,8,0\right\}$$

$$\frac{2\left(3a^3A+15aAb^2+15a^2bB-5b^3B+5a^3C-15ab^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5d}+$$

$$\frac{2\left(3a^2Ab+3Ab^3+a^3B+9ab^2B+9a^2bC+b^3C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3d}-$$

$$\frac{2b\left(12aAb+5a^2B-15b^2B-40abC\right)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{15d}-$$

$$\frac{2b(9Ab+5aB-5bC)\sqrt{\text{Sec}[c+dx]}\ (a+b\,\text{Sec}[c+dx])\ \text{Sin}[c+dx]}{15d}+$$

$$\frac{2(6Ab+5aB)(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{15d\sqrt{\text{Sec}[c+dx]}}+\frac{2A(a+b\,\text{Sec}[c+dx])^3\,\text{Sin}[c+dx]}{5d\,\text{Sec}[c+dx]^{3/2}}$$

$$\left(6\sqrt{2}\,a^3A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}[c+dx]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+\left(6\sqrt{2}\,aAb^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+\left(6\sqrt{2}\,a^2bB\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(2\sqrt{2}\,b^3B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\ \text{Cos}[c+dx]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+\Bigg(2\sqrt{2}\ a^3 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}$$

$$\text{Cos}[c+d x]^5\,\text{Csc}[c]\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)-$$

$$\Bigg(6\sqrt{2}\ a b^2 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5\,\text{Csc}[c]$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\text{Sec}[c+d x])^3$$

$$\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Bigg)\Big/\left(d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+$$

$$\frac{4 a^2 A b\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 A b^3\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^3 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{12 a b^2 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{12 a^2 b C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 b^3 C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,\text{Sec}[c+d x]^{9/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{10\,d}\left(11\,a^3\,A+60\,a\,A\,b^2+60\,a^2\,b\,B-40\,b^3\,B+20\,a^3\,C-120\,a\,b^2\,C+13\,a^3\,A\,\mathrm{Cos}[2\,c]+60\,a\,A\,b^2\,\mathrm{Cos}[2\,c]+60\,a^2\,b\,B\,\mathrm{Cos}[2\,c]+20\,a^3\,C\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+\frac{2\,a^2\,(3\,A\,b+a\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{3\,d}+\frac{a^3\,A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{5\,d}+\frac{a\left(13\,a^2\,A+60\,A\,b^2+60\,a\,b\,B+20\,a^2\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{5\,d}+\frac{4\,b^3\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{2\,a^2\,(3\,A\,b+a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{3\,d}+\frac{a^3\,A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{5\,d}+\frac{4\,b^3\,C\,\mathrm{Tan}[c]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{7/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(9\,a^2\,A\,b+5\,A\,b^3+3\,a^3\,B+15\,a\,b^2\,B+15\,a^2\,b\,C-5\,b^3\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{5\,d}+\frac{2\left(5\,a^3\,A+21\,a\,A\,b^2+21\,a^2\,b\,B+21\,b^3\,B+7\,a^3\,C+63\,a\,b^2\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}-\frac{2\,b\left(25\,a^2\,A+57\,A\,b^2+84\,a\,b\,B+35\,a^2\,C-105\,b^2\,C\right)\sqrt{\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{105\,d}+\frac{2\left(25\,a^2\,A+24\,A\,b^2+63\,a\,b\,B+35\,a^2\,C\right)(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\,(6\,A\,b+7\,a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{35\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{7\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$\frac{1}{420\,d}\sqrt{\mathrm{Sec}[c+d\,x]}\left(-1512\,i\,a^2\,A\,b\,\mathrm{Cos}[c+d\,x]-840\,i\,A\,b^3\,\mathrm{Cos}[c+d\,x]-504\,i\,a^3\,B\,\mathrm{Cos}[c+d\,x]-2520\,i\,a\,b^2\,B\,\mathrm{Cos}[c+d\,x]-2520\,i\,a^2\,b\,C\,\mathrm{Cos}[c+d\,x]+840\,i\,b^3\,C\,\mathrm{Cos}[c+d\,x]+40\left(21\,a^2\,b\,B+21\,b^3\,B+21\,a\,b^2\,(A+3\,C)+a^3\,(5\,A+7\,C)\right)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]+168\,i\left(3\,a^3\,B+15\,a\,b^2\,B+5\,b^3\,(A-C)+3\,a^2\,b\,(3\,A+5\,C)\right)e^{-i\,(c+d\,x)}\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]+126\,a^2\,A\,b\,\mathrm{Sin}[c+d\,x]+42\,a^3\,B\,\mathrm{Sin}[c+d\,x]+840\,b^3\,C\,\mathrm{Sin}[c+d\,x]+130\,a^3\,A\,\mathrm{Sin}[2\,(c+d\,x)]+420\,a\,A\,b^2\,\mathrm{Sin}[2\,(c+d\,x)]+420\,a^2\,b\,B\,\mathrm{Sin}[2\,(c+d\,x)]+140\,a^3\,C\,\mathrm{Sin}[2\,(c+d\,x)]+126\,a^2\,A\,b\,\mathrm{Sin}[3\,(c+d\,x)]+42\,a^3\,B\,\mathrm{Sin}[3\,(c+d\,x)]+15\,a^3\,A\,\mathrm{Sin}[4\,(c+d\,x)]\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{9/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(7a^3A+27aAb^2+27a^2bB+15b^3B+9a^3C+45ab^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{15d}+$$

$$\frac{2\left(15a^2Ab+7Ab^3+5a^3B+21ab^2B+21a^2bC+21b^3C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21d}+$$

$$\frac{2\left(176a^2Ab+16Ab^3+75a^3B+171ab^2B+252a^2bC\right)\text{Sin}[c+dx]}{315d\sqrt{\text{Sec}[c+dx]}}+$$

$$\frac{2\left(49a^2A+24Ab^2+99abB+63a^2C\right)(a+b\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{315d\,\text{Sec}[c+dx]^{3/2}}+$$

$$\frac{2(2Ab+3aB)(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{21d\,\text{Sec}[c+dx]^{5/2}}+\frac{2A(a+b\,\text{Sec}[c+dx])^3\,\text{Sin}[c+dx]}{9d\,\text{Sec}[c+dx]^{7/2}}$$

$$\left(14\sqrt{2}\,a^3A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+\left(18\sqrt{2}\,aAb^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+\left(18\sqrt{2}\,a^2bB\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+dx])^3\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d(b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\left(2\sqrt{2}\,b^3B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\right.$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+\Bigg(6\sqrt{2}\ a^3 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}$$

$$\text{Cos}[c+d x]^5\,\text{Csc}[c]\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)$$

$$(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Bigg)\Bigg/$$

$$\left(5 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+$$

$$\Bigg(6\sqrt{2}\ a b^2 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\ \text{Cos}[c+d x]^5\,\text{Csc}[c]$$

$$\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\text{Sec}[c+d x])^3$$

$$\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\Bigg)\Bigg/\left(d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\right)+$$

$$\frac{20 a^2 A b\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{7 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 A b^3\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{20 a^3 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{21 d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a b^2 B\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^2 b C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{4 b^3 C\,\text{Cos}[c+d x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}\ (a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{d\,(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d x])^3\,(A+2 C+2 B\,\text{Cos}[c+d x]+A\,\text{Cos}[2 c+2 d x])\,\text{Sec}[c+d x]^{9/2}\,(a+b\,\text{Sec}[c+d x])^3\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}$$

$$\left(-\frac{1}{180\,d}\left(149\,a^3\,A+594\,a\,A\,b^2+594\,a^2\,b\,B+360\,b^3\,B+198\,a^3\,C+1080\,a\,b^2\,C+187\,a^3\,A\,\text{Cos}[2\,c]+702\,a\,A\,b^2\,\text{Cos}[2\,c]+702\,a^2\,b\,B\,\text{Cos}[2\,c]+360\,b^3\,B\,\text{Cos}[2\,c]+234\,a^3\,C\,\text{Cos}[2\,c]+1080\,a\,b^2\,C\,\text{Cos}[2\,c]\right)\text{Cos}[d\,x]\,\text{Csc}[c]+\frac{\left(39\,a^2\,A\,b+14\,A\,b^3+13\,a^3\,B+42\,a\,b^2\,B+42\,a^2\,b\,C\right)\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{21\,d}+\frac{a\left(43\,a^2\,A+108\,A\,b^2+108\,a\,b\,B+36\,a^2\,C\right)\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{180\,d}+\frac{a^2\,(3\,A\,b+a\,B)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{14\,d}+\frac{a^3\,A\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{36\,d}+\frac{\left(187\,a^3\,A+702\,a\,A\,b^2+702\,a^2\,b\,B+360\,b^3\,B+234\,a^3\,C+1080\,a\,b^2\,C\right)\text{Cos}[c]\,\text{Sin}[d\,x]}{90\,d}+\frac{\left(39\,a^2\,A\,b+14\,A\,b^3+13\,a^3\,B+42\,a\,b^2\,B+42\,a^2\,b\,C\right)\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{21\,d}+\frac{a\left(43\,a^2\,A+108\,A\,b^2+108\,a\,b\,B+36\,a^2\,C\right)\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{180\,d}+\frac{a^2\,(3\,A\,b+a\,B)\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{14\,d}+\frac{a^3\,A\,\text{Cos}[5\,c]\,\text{Sin}[5\,d\,x]}{36\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{11/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{2\left(21\,a^2\,A\,b+9\,A\,b^3+7\,a^3\,B+27\,a\,b^2\,B+27\,a^2\,b\,C+15\,b^3\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,d}+\frac{2\left(45\,a^3\,A+165\,a\,A\,b^2+165\,a^2\,b\,B+77\,b^3\,B+55\,a^3\,C+231\,a\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{231\,d}+\frac{2\left(1212\,a^2\,A\,b+48\,A\,b^3+539\,a^3\,B+979\,a\,b^2\,B+1584\,a^2\,b\,C\right)\text{Sin}[c+d\,x]}{3465\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\left(45\,a^3\,A+165\,a\,A\,b^2+165\,a^2\,b\,B+77\,b^3\,B+55\,a^3\,C+231\,a\,b^2\,C\right)\text{Sin}[c+d\,x]}{231\,d\,\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\left(81\,a^2\,A+24\,A\,b^2+143\,a\,b\,B+99\,a^2\,C\right)(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{693\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,(6\,A\,b+11\,a\,B)\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{99\,d\,\text{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{11\,d\,\text{Sec}[c+d\,x]^{9/2}}$$

$$\left(14\sqrt{2}\,a^2\,A\,b\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)\right.$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(6\sqrt{2}\,A\,b^3\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(14\sqrt{2}\,a^3\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(18\sqrt{2}\,a\,b^2\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(18\sqrt{2}\,a^2\,b\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(2\sqrt{2}\,b^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\left(\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)\right.$$

$$\left.(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{60\,a^3\,A\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{77\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,a\,A\,b^2\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,a^2\,b\,B\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^3\,B\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,a^3\,C\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a\,b^2\,C\,\text{Cos}[c+d\,x]^{11/2}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}$$

$$(a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{1}{180\,d}\left(447\,a^2\,A\,b+198\,A\,b^3+149\,a^3\,B+594\,a\,b^2\,B+594\,a^2\,b\,C+360\,b^3\,C+561\,a^2\,A\,b\,\text{Cos}[2\,c]+234\,A\,b^3\,\text{Cos}[2\,c]+\right.\right.$$

$$\left.187\,a^3\,B\,\text{Cos}[2\,c]+702\,a\,b^2\,B\,\text{Cos}[2\,c]+702\,a^2\,b\,C\,\text{Cos}[2\,c]+360\,b^3\,C\,\text{Cos}[2\,c]\right)\text{Cos}[d\,x]\,\text{Csc}[c]+$$

$$\frac{\left(1041\,a^3\,A+3432\,a\,A\,b^2+3432\,a^2\,b\,B+1232\,b^3\,B+1144\,a^3\,C+3696\,a\,b^2\,C\right)\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{1848\,d}+$$

$$\frac{\left(129\,a^2\,A\,b+36\,A\,b^3+43\,a^3\,B+108\,a\,b^2\,B+108\,a^2\,b\,C\right)\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{180\,d}+$$

$$\frac{a\left(16\,a^2\,A+33\,A\,b^2+33\,a\,b\,B+11\,a^2\,C\right)\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{154\,d}+\frac{a^2\,(3\,A\,b+a\,B)\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{36\,d}+$$

$$\frac{a^3\,A\,\text{Cos}[6\,d\,x]\,\text{Sin}[6\,c]}{88\,d}+\frac{\left(561\,a^2\,A\,b+234\,A\,b^3+187\,a^3\,B+702\,a\,b^2\,B+702\,a^2\,b\,C+360\,b^3\,C\right)\text{Cos}[c]\,\text{Sin}[d\,x]}{90\,d}+$$

$$\frac{\left(1041\,a^3\,A+3432\,a\,A\,b^2+3432\,a^2\,b\,B+1232\,b^3\,B+1144\,a^3\,C+3696\,a\,b^2\,C\right)\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{1848\,d}+$$

$$\frac{\left(129\,a^2\,A\,b+36\,A\,b^3+43\,a^3\,B+108\,a\,b^2\,B+108\,a^2\,b\,C\right)\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{180\,d}+$$

$$\left.\frac{a\left(16\,a^2\,A+33\,A\,b^2+33\,a\,b\,B+11\,a^2\,C\right)\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{154\,d}+\frac{a^2\,(3\,A\,b+a\,B)\,\text{Cos}[5\,c]\,\text{Sin}[5\,d\,x]}{36\,d}+\frac{a^3\,A\,\text{Cos}[6\,c]\,\text{Sin}[6\,d\,x]}{88\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\;x,\;10,\;0\right\}$$

$$-\frac{2\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}}{15 d}+$$

$$\frac{1}{231 d}2\left(231 a^4 A+462 a^2 A b^2+55 A b^4+308 a^3 b B+220 a b^3 B+77 a^4 C+330 a^2 b^2 C+45 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}+$$

$$\frac{2\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right)\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{15 d}+$$

$$\frac{2\left(4653 a^2 A b^2+825 A b^4+2057 a^3 b B+2761 a b^3 B+128 a^4 C+3199 a^2 b^2 C+675 b^4 C\right)\text{Sec}[c+d x]^{3/2}\ \text{Sin}[c+d x]}{3465 d}+$$

$$\frac{2\left(1782 a A b^2+1353 a^2 b B+539 b^3 B+192 a^3 C+1346 a b^2 C\right)\text{Sec}[c+d x]^{3/2}(a+b\,\text{Sec}[c+d x])\ \text{Sin}[c+d x]}{3465 d}+$$

$$\frac{2\left(33 A b^2+55 a b B+16 a^2 C+27 b^2 C\right)\text{Sec}[c+d x]^{3/2}(a+b\,\text{Sec}[c+d x])^2\ \text{Sin}[c+d x]}{231 d}+$$

$$\frac{2(11 b B+8 a C)\text{Sec}[c+d x]^{3/2}(a+b\,\text{Sec}[c+d x])^3\ \text{Sin}[c+d x]}{99 d}+\frac{2 C\,\text{Sec}[c+d x]^{3/2}(a+b\,\text{Sec}[c+d x])^4\ \text{Sin}[c+d x]}{11 d}$$

$$-\left(8\sqrt{2}\ a^3 A b\, e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\ \text{Cos}[c+d x]^6\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)(a+b\,\text{Sec}[c+d x])^4$$

$$\left.\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\right)\Big/\left(d(b+a\,\text{Cos}[c+d x])^4(A+2C+2B\,\text{Cos}[c+d x]+A\,\text{Cos}[2c+2d x])\right)-$$

$$\left(24\sqrt{2}\ a A b^3\, e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\ \text{Cos}[c+d x]^6\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d x])^4\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)\right)\Big/$$

$$\left(5d(b+a\,\text{Cos}[c+d x])^4(A+2C+2B\,\text{Cos}[c+d x]+A\,\text{Cos}[2c+2d x])\right)-$$

$$\left(2\sqrt{2}\ a^4 B\, e^{-i(2c+d x)}\sqrt{\frac{e^{i(c+d x)}}{1+e^{2i(c+d x)}}}\ \text{Cos}[c+d x]^6\ \text{Csc}[c]\right.$$

$$\left(1+e^{2i(c+d x)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+d x)}}\ \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+d x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(36\sqrt{2}\,a^2\,b^2\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(14\sqrt{2}\,b^4\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(24\sqrt{2}\,a^3\,b\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(56\sqrt{2}\,a\,b^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{4 a^4 A \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{8 a^2 A b^2 \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{20 A b^4 \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{16 a^3 b B \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{80 a b^3 B \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^4 C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{40 a^2 b^2 C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{7 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{60 b^4 C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{77 d\,(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{11/2}}$$
$$(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$
$$\Bigg(\frac{4\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right) \operatorname{Cos}[d x] \operatorname{Csc}[c]}{15 d}+$$
$$\frac{4 b^4 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^5 \operatorname{Sin}[d x]}{11 d}+\frac{4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^4 \left(9 b^4 C \operatorname{Sin}[c]+11 b^4 B \operatorname{Sin}[d x]+44 a b^3 C \operatorname{Sin}[d x]\right)}{99 d}+\frac{1}{3465 d}$$
$$4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 \left(495 A b^4 \operatorname{Sin}[c]+1980 a b^3 B \operatorname{Sin}[c]+2970 a^2 b^2 C \operatorname{Sin}[c]+405 b^4 C \operatorname{Sin}[c]+2772 a A b^3 \operatorname{Sin}[d x]+\right.$$
$$\left.4158 a^2 b^2 B \operatorname{Sin}[d x]+539 b^4 B \operatorname{Sin}[d x]+2772 a^3 b C \operatorname{Sin}[d x]+2156 a b^3 C \operatorname{Sin}[d x]\right)+\frac{1}{693 d} 4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3$$
$$\left(77 b^4 B \operatorname{Sin}[c]+308 a b^3 C \operatorname{Sin}[c]+99 A b^4 \operatorname{Sin}[d x]+396 a b^3 B \operatorname{Sin}[d x]+594 a^2 b^2 C \operatorname{Sin}[d x]+81 b^4 C \operatorname{Sin}[d x]\right)+$$
$$\frac{1}{3465 d} 4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x] \left(2772 a A b^3 \operatorname{Sin}[c]+4158 a^2 b^2 B \operatorname{Sin}[c]+539 b^4 B \operatorname{Sin}[c]+2772 a^3 b C \operatorname{Sin}[c]+\right.$$
$$2156 a b^3 C \operatorname{Sin}[c]+6930 a^2 A b^2 \operatorname{Sin}[d x]+825 A b^4 \operatorname{Sin}[d x]+4620 a^3 b B \operatorname{Sin}[d x]+$$
$$\left.3300 a b^3 B \operatorname{Sin}[d x]+1155 a^4 C \operatorname{Sin}[d x]+4950 a^2 b^2 C \operatorname{Sin}[d x]+675 b^4 C \operatorname{Sin}[d x]\right)+$$
$$\frac{4\left(462 a^2 A b^2+55 A b^4+308 a^3 b B+220 a b^3 B+77 a^4 C+330 a^2 b^2 C+45 b^4 C\right) \operatorname{Tan}[c]}{231 d}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\sqrt{\operatorname{Sec}[c+d x]}}, x, 9, 0\right\}$$

$$\frac{1}{15\,d}2\left(15\,a^4\,A-90\,a^2\,A\,b^2-9\,A\,b^4-60\,a^3\,b\,B-36\,a\,b^3\,B-15\,a^4\,C-54\,a^2\,b^2\,C-7\,b^4\,C\right)$$

$$\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}\;+$$

$$\frac{2\left(84\,a^3\,A\,b+28\,a\,A\,b^3+21\,a^4\,B+42\,a^2\,b^2\,B+5\,b^4\,B+28\,a^3\,b\,C+20\,a\,b^3\,C\right)\sqrt{\text{Cos}[c+d\,x]}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\text{Sec}[c+d\,x]}}{21\,d}+$$

$$\frac{2\left(1533\,a^2\,A\,b^2+189\,A\,b^4+837\,a^3\,b\,B+681\,a\,b^3\,B+128\,a^4\,C+883\,a^2\,b^2\,C+147\,b^4\,C\right)\sqrt{\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\left(294\,a\,A\,b^2+261\,a^2\,b\,B+75\,b^3\,B+64\,a^3\,C+202\,a\,b^2\,C\right)\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\left(63\,A\,b^2+117\,a\,b\,B+48\,a^2\,C+49\,b^2\,C\right)\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\,(9\,b\,B+8\,a\,C)\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{63\,d}+\frac{2\,C\sqrt{\text{Sec}[c+d\,x]}\;(a+b\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\left(2\sqrt{2}\;a^4\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(12\sqrt{2}\;a^2\,A\,b^2\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-\left(6\sqrt{2}\;A\,b^4\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(8\sqrt{2}\,a^3\,b\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(24\sqrt{2}\,a\,b^3\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,a^4\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(36\sqrt{2}\,a^2\,b^2\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(14\sqrt{2}\,b^4\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\Big(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\Big)+$$

$$\frac{16\,a^3\,A\,b\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a\,A\,b^3\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^4\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{8\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,b^4\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{80\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{11/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{2\left(15\,a^4\,A-180\,a^2\,A\,b^2-18\,A\,b^4-120\,a^3\,b\,B-72\,a\,b^3\,B-30\,a^4\,C-108\,a^2\,b^2\,C-14\,b^4\,C+15\,a^4\,A\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]}{15\,d}+$$

$$\frac{4\,a^4\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{d}+\frac{4\,b^4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{9\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\left(7\,b^4\,C\,\mathrm{Sin}[c]+9\,b^4\,B\,\mathrm{Sin}[d\,x]+36\,a\,b^3\,C\,\mathrm{Sin}[d\,x]\right)}{63\,d}+$$

$$\frac{1}{315\,d}\,4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\Big(63\,A\,b^4\,\mathrm{Sin}[c]+252\,a\,b^3\,B\,\mathrm{Sin}[c]+378\,a^2\,b^2\,C\,\mathrm{Sin}[c]+49\,b^4\,C\,\mathrm{Sin}[c]+420\,a\,A\,b^3\,\mathrm{Sin}[d\,x]+$$

$$630\,a^2\,b^2\,B\,\mathrm{Sin}[d\,x]+75\,b^4\,B\,\mathrm{Sin}[d\,x]+420\,a^3\,b\,C\,\mathrm{Sin}[d\,x]+300\,a\,b^3\,C\,\mathrm{Sin}[d\,x]\Big)+\frac{1}{315\,d}4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2$$

$$\Big(45\,b^4\,B\,\mathrm{Sin}[c]+180\,a\,b^3\,C\,\mathrm{Sin}[c]+63\,A\,b^4\,\mathrm{Sin}[d\,x]+252\,a\,b^3\,B\,\mathrm{Sin}[d\,x]+378\,a^2\,b^2\,C\,\mathrm{Sin}[d\,x]+49\,b^4\,C\,\mathrm{Sin}[d\,x]\Big)+$$

$$\frac{4\,b\left(28\,a\,A\,b^2+42\,a^2\,b\,B+5\,b^3\,B+28\,a^3\,C+20\,a\,b^2\,C\right)\mathrm{Tan}[c]}{21\,d}\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,9,\,0\right\}$$

$$\frac{2\left(20 a^3 A b-20 a A b^3+5 a^4 B-30 a^2 b^2 B-3 b^4 B-20 a^3 b C-12 a b^3 C\right) \sqrt{\operatorname{Cos}[c+d x]}\ \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{5 d}+$$

$$\frac{1}{21 d} 2\left(7 a^4 A+126 a^2 A b^2+7 A b^4+84 a^3 b B+28 a b^3 B+21 a^4 C+42 a^2 b^2 C+5 b^4 C\right) \sqrt{\operatorname{Cos}[c+d x]}\ \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]$$

$$\sqrt{\operatorname{Sec}[c+d x]}-\frac{2 b\left(35 a^3 A-385 a A b^2-511 a^2 b B-63 b^3 B-279 a^3 C-227 a b^2 C\right) \sqrt{\operatorname{Sec}[c+d x]}\ \operatorname{Sin}[c+d x]}{105 d}-$$

$$\frac{2 b\left(35 a^2 A-35 A b^2-98 a b B-87 a^2 C-25 b^2 C\right) \sqrt{\operatorname{Sec}[c+d x]}\ (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{105 d}-$$

$$\frac{2 b(35 a A-21 b B-39 a C) \sqrt{\operatorname{Sec}[c+d x]}\ (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{105 d}-$$

$$\frac{2 b(7 A-3 C) \sqrt{\operatorname{Sec}[c+d x]}\ (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{21 d}+\frac{2 A(a+b \operatorname{Sec}[c+d x])^4 \operatorname{Sin}[c+d x]}{3 d \sqrt{\operatorname{Sec}[c+d x]}}$$

$$\left(8 \sqrt{2}\ a^3 A b\, e^{-i(2 c+d x)} \sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\ \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c]\right.$$

$$\left(1+e^{2 i(c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i(c+d x)}}\ \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i(c+d x)}\right]\right)$$

$$\left.(a+b \operatorname{Sec}[c+d x])^4\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(d(b+a \operatorname{Cos}[c+d x])^4(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)-\left(8 \sqrt{2}\ a A b^3\, e^{-i(2 c+d x)} \sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\right.$$

$$\operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c]\left(1+e^{2 i(c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i(c+d x)}}\ \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i(c+d x)}\right]\right)$$

$$\left.(a+b \operatorname{Sec}[c+d x])^4\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(d(b+a \operatorname{Cos}[c+d x])^4(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+\left(2 \sqrt{2}\ a^4 B\, e^{-i(2 c+d x)} \sqrt{\frac{e^{i(c+d x)}}{1+e^{2 i(c+d x)}}}\right.$$

$$\operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c]\left(1+e^{2 i(c+d x)}+\left(-1+e^{2 i c}\right) \sqrt{1+e^{2 i(c+d x)}}\ \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i(c+d x)}\right]\right)$$

$$\left.(a+b \operatorname{Sec}[c+d x])^4\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/$$

$$\left(d(b+a \operatorname{Cos}[c+d x])^4(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)-$$

$$\left(12\sqrt{2}\,a^2 b^2 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(6\sqrt{2}\,b^4 B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(8\sqrt{2}\,a^3 b\,C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^4$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-$$

$$\left(24\sqrt{2}\,a\,b^3 C\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^4$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\frac{4a^4 A\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{3d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{24a^2 A b^2\,\mathrm{Cos}[c+dx]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])}+$$

$$\frac{4 A b^4 \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{3 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{16 a^3 b B \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{16 a b^3 B \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{3 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{4 a^4 C \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{8 a^2 b^2 C \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{20 b^4 C \text{Cos}[c+d x]^{13/2} \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{21 d (b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \text{Sec}[c+d x]^{11/2}}$$
$$(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$
$$\left(-\frac{2 \left(20 a^3 A b-40 a A b^3+5 a^4 B-60 a^2 b^2 B-6 b^4 B-40 a^3 b C-24 a b^3 C+20 a^3 A b \text{Cos}[2 c]+5 a^4 B \text{Cos}[2 c]\right) \text{Cos}[d x] \text{Csc}[c]}{5 d}+\right.$$
$$\frac{2 a^4 A \text{Cos}[2 d x] \text{Sin}[2 c]}{3 d}+\frac{4 a^3 (4 A b+a B) \text{Cos}[c] \text{Sin}[d x]}{d}+\frac{4 b^4 C \text{Sec}[c] \text{Sec}[c+d x]^3 \text{Sin}[d x]}{7 d}+$$
$$\frac{4 \text{Sec}[c] \text{Sec}[c+d x]^2 \left(5 b^4 C \text{Sin}[c]+7 b^4 B \text{Sin}[d x]+28 a b^3 C \text{Sin}[d x]\right)}{35 d}+\frac{1}{105 d} 4 \text{Sec}[c] \text{Sec}[c+d x]$$
$$\left(21 b^4 B \text{Sin}[c]+84 a b^3 C \text{Sin}[c]+35 A b^4 \text{Sin}[d x]+140 a b^3 B \text{Sin}[d x]+210 a^2 b^2 C \text{Sin}[d x]+25 b^4 C \text{Sin}[d x]\right)+$$
$$\left.\frac{2 a^4 A \text{Cos}[2 c] \text{Sin}[2 d x]}{3 d}+\frac{4 b^2 \left(7 A b^2+28 a b B+42 a^2 C+5 b^2 C\right) \text{Tan}[c]}{21 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\text{Sec}[c+d x]^{5/2}}, x, 9, 0\right\}$$

$$\frac{1}{5 d} 2 \left(3 a^4 A+30 a^2 A b^2-5 A b^4+20 a^3 b B-20 a b^3 B+5 a^4 C-30 a^2 b^2 C-3 b^4 C\right)$$
$$\sqrt{\text{Cos}[c+d x]}\,\text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}+$$
$$\frac{2 \left(4 a^3 A b+12 a A b^3+a^4 B+18 a^2 b^2 B+b^4 B+12 a^3 b C+4 a b^3 C\right) \sqrt{\text{Cos}[c+d x]}\,\text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 d}-$$
$$\frac{2 b \left(17 a^2 A b-15 A b^3+5 a^3 B-55 a b^2 B-73 a^2 b C-9 b^3 C\right) \sqrt{\text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{15 d}-$$
$$\frac{2 b \left(14 a A b+5 a^2 B-5 b^2 B-14 a b C\right) \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{15 d}-$$
$$\frac{2 b (11 A b+5 a B-3 b C) \sqrt{\text{Sec}[c+d x]}\,(a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{15 d}+$$
$$\frac{2 (8 A b+5 a B) (a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{15 d \sqrt{\text{Sec}[c+d x]}}+\frac{2 A (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{5 d \text{Sec}[c+d x]^{3/2}}$$

$$\left(6\sqrt{2}\,a^4 A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^4$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(12\sqrt{2}\,a^2 A b^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,A b^4\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(8\sqrt{2}\,a^3 b B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(8\sqrt{2}\,a b^3 B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\left(2\sqrt{2}\;a^4\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(12\sqrt{2}\;a^2\,b^2\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-\left(6\sqrt{2}\;b^4\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{16\,a^3\,A\,b\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a\,A\,b^3\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^4\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{24\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4 b^4 B \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{16 a^3 b C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{16 a b^3 C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{11/2}}$$

$$(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{1}{10 d}\left(11 a^4 A+120 a^2 A b^2-40 A b^4+80 a^3 b B-160 a b^3 B+20 a^4 C-240 a^2 b^2 C-24 b^4 C+13 a^4 A \operatorname{Cos}[2 c]+120 a^2 A b^2 \operatorname{Cos}[2 c]+80 a^3 b B \operatorname{Cos}[2 c]+20 a^4 C \operatorname{Cos}[2 c]\right) \operatorname{Cos}[d x] \operatorname{Csc}[c]+\frac{2 a^3 (4 A b+a B) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{3 d}+\frac{a^4 A \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{5 d}+\frac{a^2 \left(13 a^2 A+120 A b^2+80 a b B+20 a^2 C\right) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{5 d}+\frac{4 b^4 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 \operatorname{Sin}[d x]}{5 d}+\frac{4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x] \left(3 b^4 C \operatorname{Sin}[c]+5 b^4 B \operatorname{Sin}[d x]+20 a b^3 C \operatorname{Sin}[d x]\right)}{15 d}+\frac{2 a^3 (4 A b+a B) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{3 d}+\frac{a^4 A \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{5 d}+\frac{4 b^3 (b B+4 a C) \operatorname{Tan}[c]}{3 d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\operatorname{Sec}[c+d x]^{7/2}}, x, 9, 0\right\}$$

$$\frac{2 \left(12 a^3 A b+20 a A b^3+3 a^4 B+30 a^2 b^2 B-5 b^4 B+20 a^3 b C-20 a b^3 C\right) \sqrt{\operatorname{Cos}[c+d x]}\,\operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}}{5 d}+$$

$$\frac{1}{21 d} 2 \left(5 a^4 A+42 a^2 A b^2+21 A b^4+28 a^3 b B+84 a b^3 B+7 a^4 C+126 a^2 b^2 C+7 b^4 C\right) \sqrt{\operatorname{Cos}[c+d x]}\,\operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}-\frac{2 b \left(25 a^3 A+141 a A b^2+119 a^2 b B-105 b^3 B+35 a^3 C-385 a b^2 C\right) \sqrt{\operatorname{Sec}[c+d x]}\,\operatorname{Sin}[c+d x]}{105 d}-$$

$$\frac{2 b \left(25 a^2 A+87 A b^2+98 a b B+35 a^2 C-35 b^2 C\right) \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{105 d}+$$

$$\frac{2 \left(25 a^2 A+48 A b^2+77 a b B+35 a^2 C\right) (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{105 d \sqrt{\operatorname{Sec}[c+d x]}}+$$

$$\frac{2 (8 A b+7 a B) (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{35 d \operatorname{Sec}[c+d x]^{3/2}}+\frac{2 A (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Sin}[c+d x]}{7 d \operatorname{Sec}[c+d x]^{5/2}}$$

$$\left(24\sqrt{2}\,a^3 A b\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(8\sqrt{2}\,a A b^3\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(6\sqrt{2}\,a^4 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(12\sqrt{2}\,a^2 b^2 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)-\left(2\sqrt{2}\,b^4 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(8\sqrt{2}\,a^3\,b\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(8\sqrt{2}\,a\,b^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{20\,a^4\,A\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{8\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,A\,b^4\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a^3\,b\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a\,b^3\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,a^4\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{24\,a^2\,b^2\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^4\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{11/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{1}{10\,d}\left(44\,a^3\,A\,b+80\,a\,A\,b^3+11\,a^4\,B+120\,a^2\,b^2\,B-40\,b^4\,B+80\,a^3\,b\,C-160\,a\,b^3\,C+52\,a^3\,A\,b\,\mathrm{Cos}[2\,c]+\right.\right.$$

$$\left.80\,a\,A\,b^3\,\mathrm{Cos}[2\,c]+13\,a^4\,B\,\mathrm{Cos}[2\,c]+120\,a^2\,b^2\,B\,\mathrm{Cos}[2\,c]+80\,a^3\,b\,C\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+$$

$$\frac{a^2\left(13\,a^2\,A+84\,A\,b^2+56\,a\,b\,B+14\,a^2\,C\right)\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{21\,d}+\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{5\,d}+$$

$$\frac{a^4\,A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{14\,d}+\frac{a\left(52\,a^2\,A\,b+80\,A\,b^3+13\,a^3\,B+120\,a\,b^2\,B+80\,a^2\,b\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{5\,d}+$$

$$\frac{4\,b^4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{a^2\left(13\,a^2\,A+84\,A\,b^2+56\,a\,b\,B+14\,a^2\,C\right)\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{21\,d}+$$

$$\left.\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{5\,d}+\frac{a^4\,A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{14\,d}+\frac{4\,b^4\,C\,\mathrm{Tan}[c]}{3\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{9/2}},\,x,\,9,\,0\right\}$$

$$\frac{1}{15\,d}2\left(7\,a^4\,A+54\,a^2\,A\,b^2+15\,A\,b^4+36\,a^3\,b\,B+60\,a\,b^3\,B+9\,a^4\,C+90\,a^2\,b^2\,C-15\,b^4\,C\right)$$

$$\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}+$$

$$\frac{2\left(20\,a^3\,A\,b+28\,a\,A\,b^3+5\,a^4\,B+42\,a^2\,b^2\,B+21\,b^4\,B+28\,a^3\,b\,C+84\,a\,b^3\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{21\,d}-$$

$$\frac{2\,b\left(251\,a^2\,A\,b+187\,A\,b^3+75\,a^3\,B+423\,a\,b^2\,B+357\,a^2\,b\,C-315\,b^3\,C\right)\sqrt{\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\left(202\,a^2\,A\,b+64\,A\,b^3+75\,a^3\,B+261\,a\,b^2\,B+294\,a^2\,b\,C\right)(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{315\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\left(49\,a^2\,A+48\,A\,b^2+117\,a\,b\,B+63\,a^2\,C\right)(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{315\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\,(8\,A\,b+9\,a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{63\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{9\,d\,\mathrm{Sec}[c+d\,x]^{7/2}}$$

$$\left(14\sqrt{2}\;a^4\,A\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(36\sqrt{2}\,a^2\,A\,b^2\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\left(2\sqrt{2}\,A\,b^4\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(24\sqrt{2}\,a^3\,b\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\left(8\sqrt{2}\,a\,b^3\,B\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\left(6\sqrt{2}\,a^4\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\right.$$

$$\left(\frac{\mathrm{Cos}[c+d x]^6\,\mathrm{Csc}[c]\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{\left(5 d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)\right)}+\right.$$

$$\left.\frac{12\sqrt{2}\,a^2 b^2 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\,\mathrm{Cos}[c+d x]^6\,\mathrm{Csc}[c]\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{\left(d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)\right)}-\right.$$

$$\left.\frac{2\sqrt{2}\,b^4 C\,e^{-i (2 c+d x)}\sqrt{\frac{e^{i (c+d x)}}{1+e^{2 i (c+d x)}}}\,\mathrm{Cos}[c+d x]^6\,\mathrm{Csc}[c]\left(1+e^{2 i (c+d x)}+\left(-1+e^{2 i c}\right)\sqrt{1+e^{2 i (c+d x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]\right)(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{\left(d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)\right)}+\right.$$

$$\frac{80 a^3 A b\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{21 d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{16 a A b^3\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{20 a^4 B\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{21 d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{8 a^2 b^2 B\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{4 b^4 B\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{16 a^3 b C\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{3 d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{16 a b^3 C\,\mathrm{Cos}[c+d x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^4\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d x])^4\left(A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x]\right)}+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{11/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{1}{180\,d}\left(149\,a^4\,A+1188\,a^2\,A\,b^2+360\,A\,b^4+792\,a^3\,b\,B+1440\,a\,b^3\,B+198\,a^4\,C+2160\,a^2\,b^2\,C-720\,b^4\,C+187\,a^4\,A\,\mathrm{Cos}[2\,c]+\right.\right.$$

$$1404\,a^2\,A\,b^2\,\mathrm{Cos}[2\,c]+360\,A\,b^4\,\mathrm{Cos}[2\,c]+936\,a^3\,b\,B\,\mathrm{Cos}[2\,c]+1440\,a\,b^3\,B\,\mathrm{Cos}[2\,c]+234\,a^4\,C\,\mathrm{Cos}[2\,c]+$$

$$\left.2160\,a^2\,b^2\,C\,\mathrm{Cos}[2\,c]\right)\,\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+\frac{a\,\left(52\,a^2\,A\,b+56\,A\,b^3+13\,a^3\,B+84\,a\,b^2\,B+56\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{21\,d}+$$

$$\frac{a^2\,\left(43\,a^2\,A+216\,A\,b^2+144\,a\,b\,B+36\,a^2\,C\right)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{180\,d}+\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{14\,d}+$$

$$\frac{a^4\,A\,\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{36\,d}+$$

$$\frac{\left(187\,a^4\,A+1404\,a^2\,A\,b^2+360\,A\,b^4+936\,a^3\,b\,B+1440\,a\,b^3\,B+234\,a^4\,C+2160\,a^2\,b^2\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{90\,d}+$$

$$\frac{a\,\left(52\,a^2\,A\,b+56\,A\,b^3+13\,a^3\,B+84\,a\,b^2\,B+56\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{21\,d}+$$

$$\frac{a^2\,\left(43\,a^2\,A+216\,A\,b^2+144\,a\,b\,B+36\,a^2\,C\right)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{180\,d}+$$

$$\left.\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{14\,d}+\frac{a^4\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{36\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{11/2}},\,x,\,9,\,0\right\}$$

$$\frac{2\,\left(28\,a^3\,A\,b+36\,a\,A\,b^3+7\,a^4\,B+54\,a^2\,b^2\,B+15\,b^4\,B+36\,a^3\,b\,C+60\,a\,b^3\,C\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,d}+$$

$$\frac{1}{231\,d}2\,\left(45\,a^4\,A+330\,a^2\,A\,b^2+77\,A\,b^4+220\,a^3\,b\,B+308\,a\,b^3\,B+55\,a^4\,C+462\,a^2\,b^2\,C+231\,b^4\,C\right)$$

$$\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}+$$

$$\frac{2\,\left(675\,a^4\,A+3199\,a^2\,A\,b^2+128\,A\,b^4+2761\,a^3\,b\,B+2057\,a\,b^3\,B+825\,a^4\,C+4653\,a^2\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{3465\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(1346\,a^2\,A\,b+192\,A\,b^3+539\,a^3\,B+1353\,a\,b^2\,B+1782\,a^2\,b\,C\right)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{3465\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\,\left(27\,a^2\,A+16\,A\,b^2+55\,a\,b\,B+33\,a^2\,C\right)\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{231\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{2\,(8\,A\,b+11\,a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{99\,d\,\mathrm{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{11\,d\,\mathrm{Sec}[c+d\,x]^{9/2}}$$

$$\left(56\sqrt{2}\,a^3 A b\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(24\sqrt{2}\,a A b^3\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(14\sqrt{2}\,a^4 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(36\sqrt{2}\,a^2 b^2 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(2\sqrt{2}\,b^4 B\, e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(24\sqrt{2}\,a^3\,b\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(8\sqrt{2}\,a\,b^3\,C\,e^{-i\,(2\,c+d\,x)}\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{60\,a^4\,A\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{40\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,A\,b^4\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{80\,a^3\,b\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{16\,a\,b^3\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{20\,a^4\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{8\,a^2\,b^2\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4\,b^4\,C\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{11/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{1}{180\,d}\left(596\,a^3\,A\,b+792\,a\,A\,b^3+149\,a^4\,B+1188\,a^2\,b^2\,B+360\,b^4\,B+792\,a^3\,b\,C+1440\,a\,b^3\,C+748\,a^3\,A\,b\,\mathrm{Cos}[2\,c]+936\,a\,A\,b^3\,\mathrm{Cos}[2\,c]+187\,a^4\,B\,\mathrm{Cos}[2\,c]+1404\,a^2\,b^2\,B\,\mathrm{Cos}[2\,c]+360\,b^4\,B\,\mathrm{Cos}[2\,c]+936\,a^3\,b\,C\,\mathrm{Cos}[2\,c]+1440\,a\,b^3\,C\,\mathrm{Cos}[2\,c]\right)\mathrm{Cos}[d\,x]\,\mathrm{Csc}[c]+\frac{\left(1041\,a^4\,A+6864\,a^2\,A\,b^2+1232\,A\,b^4+4576\,a^3\,b\,B+4928\,a\,b^3\,B+1144\,a^4\,C+7392\,a^2\,b^2\,C\right)\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{1848\,d}+\frac{a\left(172\,a^2\,A\,b+144\,A\,b^3+43\,a^3\,B+216\,a\,b^2\,B+144\,a^2\,b\,C\right)\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{180\,d}+\frac{a^2\left(16\,a^2\,A+66\,A\,b^2+44\,a\,b\,B+11\,a^2\,C\right)\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{154\,d}+\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{36\,d}+\frac{a^4\,A\,\mathrm{Cos}[6\,d\,x]\,\mathrm{Sin}[6\,c]}{88\,d}+\frac{\left(748\,a^3\,A\,b+936\,a\,A\,b^3+187\,a^4\,B+1404\,a^2\,b^2\,B+360\,b^4\,B+936\,a^3\,b\,C+1440\,a\,b^3\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{90\,d}+\frac{\left(1041\,a^4\,A+6864\,a^2\,A\,b^2+1232\,A\,b^4+4576\,a^3\,b\,B+4928\,a\,b^3\,B+1144\,a^4\,C+7392\,a^2\,b^2\,C\right)\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{1848\,d}+\frac{a\left(172\,a^2\,A\,b+144\,A\,b^3+43\,a^3\,B+216\,a\,b^2\,B+144\,a^2\,b\,C\right)\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{180\,d}+\frac{a^2\left(16\,a^2\,A+66\,A\,b^2+44\,a\,b\,B+11\,a^2\,C\right)\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{154\,d}+\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{36\,d}+\frac{a^4\,A\,\mathrm{Cos}[6\,c]\,\mathrm{Sin}[6\,d\,x]}{88\,d}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{13/2}},\ x,\ 10,\ 0\right\}$$

$$\frac{1}{195\,d}2\left(77\,a^4\,A+546\,a^2\,A\,b^2+117\,A\,b^4+364\,a^3\,b\,B+468\,a\,b^3\,B+91\,a^4\,C+702\,a^2\,b^2\,C+195\,b^4\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}+\frac{1}{231\,d}2\left(180\,a^3\,A\,b+220\,a\,A\,b^3+45\,a^4\,B+330\,a^2\,b^2\,B+77\,b^4\,B+220\,a^3\,b\,C+308\,a\,b^3\,C\right)\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]\sqrt{\mathrm{Sec}[c+d\,x]}+\frac{2\left(5929\,a^4\,A+25\,217\,a^2\,A\,b^2+384\,A\,b^4+22\,763\,a^3\,b\,B+13\,351\,a\,b^3\,B+7007\,a^4\,C+33\,319\,a^2\,b^2\,C\right)\mathrm{Sin}[c+d\,x]}{45\,045\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{2\left(180\,a^3\,A\,b+220\,a\,A\,b^3+45\,a^4\,B+330\,a^2\,b^2\,B+77\,b^4\,B+220\,a^3\,b\,C+308\,a\,b^3\,C\right)\mathrm{Sin}[c+d\,x]}{231\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}+\frac{2\left(2518\,a^2\,A\,b+192\,A\,b^3+1053\,a^3\,B+2171\,a\,b^2\,B+3146\,a^2\,b\,C\right)(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{9009\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}+\frac{2\left(121\,a^2\,A+48\,A\,b^2+221\,a\,b\,B+143\,a^2\,C\right)(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{1287\,d\,\mathrm{Sec}[c+d\,x]^{7/2}}+\frac{2\,(8\,A\,b+13\,a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{143\,d\,\mathrm{Sec}[c+d\,x]^{9/2}}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{13\,d\,\mathrm{Sec}[c+d\,x]^{11/2}}$$

$$\left(154\sqrt{2}\,a^4 A\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)(a+b\,\mathrm{Sec}[c+dx])^4$$

$$\left.\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/\left(195\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(28\sqrt{2}\,a^2 A\,b^2\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(6\sqrt{2}\,A\,b^4\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+$$

$$\left(56\sqrt{2}\,a^3 b\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\,\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\right.$$

$$\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$\left.(a+b\,\mathrm{Sec}[c+dx])^4\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+dx])^4\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\right)+\left(24\sqrt{2}\,a\,b^3\,B\,e^{-i(2c+dx)}\sqrt{\frac{e^{i(c+dx)}}{1+e^{2i(c+dx)}}}\right.$$

$$\mathrm{Cos}[c+dx]^6\,\mathrm{Csc}[c]\left(1+e^{2i(c+dx)}+\left(-1+e^{2ic}\right)\sqrt{1+e^{2i(c+dx)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(14\,\sqrt{2}\,a^4\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(36\,\sqrt{2}\,a^2\,b^2\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}\;\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]$$

$$\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+\Bigg(2\,\sqrt{2}\,b^4\,C\,e^{-i\,(2\,c+d\,x)}\,\sqrt{\frac{e^{i\,(c+d\,x)}}{1+e^{2\,i\,(c+d\,x)}}}$$

$$\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\left(1+e^{2\,i\,(c+d\,x)}+\left(-1+e^{2\,i\,c}\right)\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]\right)$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{240\,a^3\,A\,b\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{80\,a\,A\,b^3\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{60\,a^4\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{40\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^{13/2}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}+$$

$$\frac{4 b^4 B \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{80 a^3 b C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{21 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{16 a b^3 C \operatorname{Cos}[c+d x]^{13/2} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\operatorname{Sec}[c+d x]}\,(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])}+$$

$$\frac{1}{(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Sec}[c+d x]^{11/2}}$$

$$(a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)$$

$$\Bigg(-\frac{1}{18720 d}\big(12887 a^4 A+92976 a^2 A b^2+20592 A b^4+61984 a^3 b B+82368 a b^3 B+15496 a^4 C+123552 a^2 b^2 C+37440 b^4 C+16681 a^4 A \operatorname{Cos}[2 c]+116688 a^2 A b^2 \operatorname{Cos}[2 c]+24336 A b^4 \operatorname{Cos}[2 c]+77792 a^3 b B \operatorname{Cos}[2 c]+97344 a b^3 B \operatorname{Cos}[2 c]+19448 a^4 C \operatorname{Cos}[2 c]+146016 a^2 b^2 C \operatorname{Cos}[2 c]+37440 b^4 C \operatorname{Cos}[2 c]\big) \operatorname{Cos}[d x] \operatorname{Csc}[c]+$$

$$\frac{\left(4164 a^3 A b+4576 a A b^3+1041 a^4 B+6864 a^2 b^2 B+1232 b^4 B+4576 a^3 b C+4928 a b^3 C\right) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{1848 d}+$$

$$\frac{\left(2297 a^4 A+13416 a^2 A b^2+1872 A b^4+8944 a^3 b B+7488 a b^3 B+2236 a^4 C+11232 a^2 b^2 C\right) \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{9360 d}+$$

$$\frac{a\left(32 a^2 A b+22 A b^3+8 a^3 B+33 a b^2 B+22 a^2 b C\right) \operatorname{Cos}[4 d x] \operatorname{Sin}[4 c]}{77 d}+$$

$$\frac{a^2\left(89 a^2 A+312 A b^2+208 a b B+52 a^2 C\right) \operatorname{Cos}[5 d x] \operatorname{Sin}[5 c]}{1872 d}+$$

$$\frac{a^3 (4 A b+a B) \operatorname{Cos}[6 d x] \operatorname{Sin}[6 c]}{88 d}+\frac{a^4 A \operatorname{Cos}[7 d x] \operatorname{Sin}[7 c]}{208 d}+\frac{1}{9360 d}$$

$$\left(16681 a^4 A+116688 a^2 A b^2+24336 A b^4+77792 a^3 b B+97344 a b^3 B+19448 a^4 C+146016 a^2 b^2 C+37440 b^4 C\right) \operatorname{Cos}[c]$$

$$\operatorname{Sin}[d x]+\frac{\left(4164 a^3 A b+4576 a A b^3+1041 a^4 B+6864 a^2 b^2 B+1232 b^4 B+4576 a^3 b C+4928 a b^3 C\right) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{1848 d}+$$

$$\frac{\left(2297 a^4 A+13416 a^2 A b^2+1872 A b^4+8944 a^3 b B+7488 a b^3 B+2236 a^4 C+11232 a^2 b^2 C\right) \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{9360 d}+$$

$$\frac{a\left(32 a^2 A b+22 A b^3+8 a^3 B+33 a b^2 B+22 a^2 b C\right) \operatorname{Cos}[4 c] \operatorname{Sin}[4 d x]}{77 d}+$$

$$\frac{a^2\left(89 a^2 A+312 A b^2+208 a b B+52 a^2 C\right) \operatorname{Cos}[5 c] \operatorname{Sin}[5 d x]}{1872 d}+$$

$$\frac{a^3 (4 A b+a B) \operatorname{Cos}[6 c] \operatorname{Sin}[6 d x]}{88 d}+\frac{a^4 A \operatorname{Cos}[7 c] \operatorname{Sin}[7 d x]}{208 d}\Bigg)$$

Unable to integrate:

$$\left\{\frac{\operatorname{Sec}[c+d x]^{5/2}\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{a+b \operatorname{Sec}[c+d x]}, x, 10, 0\right\}$$

$$-\frac{2\left(5Ab^2-5abB+5a^2C+3b^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5b^3d}+$$
$$\frac{2(bB-aC)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3b^2d}-$$
$$\frac{2a\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^3(a+b)d}+$$
$$\frac{2\left(5Ab^2-5abB+5a^2C+3b^2C\right)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{5b^3d}+$$
$$\frac{2(bB-aC)\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3b^2d}+\frac{2C\,\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{5bd}$$
$$\int\frac{\text{Sec}[c+dx]^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{a+b\,\text{Sec}[c+dx]}\,dx$$

Unable to integrate:

$$\left\{\frac{\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{a+b\,\text{Sec}[c+dx]},x,9,0\right\}$$
$$-\frac{2(bB-aC)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^2d}+$$
$$\frac{2C\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3bd}+$$
$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^2(a+b)d}+$$
$$\frac{2(bB-aC)\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{b^2d}+\frac{2C\,\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3bd}$$
$$\int\frac{\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{a+b\,\text{Sec}[c+dx]}\,dx$$

Unable to integrate:

$$\left\{\frac{\sqrt{\text{Sec}[c+dx]}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{a+b\,\text{Sec}[c+dx]},x,8,0\right\}$$
$$-\frac{2C\sqrt{\text{Cos}[c+dx]}\ \text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{bd}+\frac{2A\sqrt{\text{Cos}[c+dx]}\ \text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{ad}-$$
$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\ \text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{ab(a+b)d}+\frac{2C\sqrt{\text{Sec}[c+dx]}\ \text{Sin}[c+dx]}{bd}$$
$$\int\frac{\sqrt{\text{Sec}[c+dx]}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{a+b\,\text{Sec}[c+dx]}\,dx$$

Unable to integrate:

$$\left\{\frac{A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2}{\sqrt{\text{Sec}[c+dx]}\ (a+b\,\text{Sec}[c+dx])},x,7,0\right\}$$

$$\frac{2 A \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a d} - \frac{2 (A b - a B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d} + \frac{2 \left(A b^2 - a b B + a^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^2 (a+b) d}$$

$$\int \frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\sqrt{\text{Sec}[c+d x]}\ (a + b \text{Sec}[c+d x])}\, dx$$

Unable to integrate:

$$\left\{\frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{3/2}\ (a + b \text{Sec}[c+d x])}, x, 8, 0\right\}$$

$$-\frac{2 (A b - a B) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^2 d} + \frac{2 \left(a^2 A + 3 A b^2 - 3 a b B + 3 a^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 a^3 d} - \frac{2 b \left(A b^2 - a b B + a^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^3 (a+b) d} + \frac{2 A \text{Sin}[c+d x]}{3 a d \sqrt{\text{Sec}[c+d x]}}$$

$$\int \frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{3/2}\ (a + b \text{Sec}[c+d x])}\, dx$$

Unable to integrate:

$$\left\{\frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{5/2}\ (a + b \text{Sec}[c+d x])}, x, 9, 0\right\}$$

$$\frac{2 \left(3 a^2 A + 5 A b^2 - 5 a b B + 5 a^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{5 a^3 d} - \frac{2 \left(a^2 A b + 3 A b^3 - a^3 B - 3 a b^2 B + 3 a^2 b C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{3 a^4 d} + \frac{2 b^2 \left(A b^2 - a b B + a^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b}, \frac{1}{2}(c+d x), 2\right] \sqrt{\text{Sec}[c+d x]}}{a^4 (a+b) d} + \frac{2 A \text{Sin}[c+d x]}{5 a d \text{Sec}[c+d x]^{3/2}} - \frac{2 (A b - a B) \text{Sin}[c+d x]}{3 a^2 d \sqrt{\text{Sec}[c+d x]}}$$

$$\int \frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{5/2}\ (a + b \text{Sec}[c+d x])}\, dx$$

Unable to integrate:

$$\left\{\frac{A + B \text{Sec}[c+d x] + C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{7/2}\ (a + b \text{Sec}[c+d x])}, x, 10, 0\right\}$$

$$-\frac{2\left(3a^2Ab+5Ab^3-3a^3B-5ab^2B+5a^2bC\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{5a^4d}+$$

$$\frac{2\left(5a^4A+7a^2Ab^2+21Ab^4-7a^3bB-21ab^3B+7a^4C+21a^2b^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{21a^5d}-$$

$$\frac{2b^3\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a^5(a+b)d}+$$

$$\frac{2A\,\text{Sin}[c+dx]}{7a\,d\,\text{Sec}[c+dx]^{5/2}}-\frac{2(Ab-aB)\,\text{Sin}[c+dx]}{5a^2d\,\text{Sec}[c+dx]^{3/2}}+\frac{2\left(5a^2A+7Ab^2-7abB+7a^2C\right)\text{Sin}[c+dx]}{21a^3d\sqrt{\text{Sec}[c+dx]}}$$

$$\int\frac{A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2}{\text{Sec}[c+dx]^{7/2}(a+b\,\text{Sec}[c+dx])}\,dx$$

Timed out after 60 seconds:

$$\left\{\frac{\text{Sec}[c+dx]^{5/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^2},x,10,0\right\}$$

$$\frac{\left(aAb^2-3a^2bB+2b^3B+5a^3C-4ab^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^3\left(a^2-b^2\right)d}+$$

$$\frac{\left(3Ab^2-3abB+5a^2C-2b^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{3b^2\left(a^2-b^2\right)d}+$$

$$\frac{\left(a^2Ab^2-3Ab^4-3a^3bB+5ab^3B+5a^4C-7a^2b^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{(a-b)b^3(a+b)^2d}-$$

$$\frac{\left(aAb^2-3a^2bB+2b^3B+5a^3C-4ab^2C\right)\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{b^3\left(a^2-b^2\right)d}+$$

$$\frac{\left(3Ab^2-3abB+5a^2C-2b^2C\right)\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{3b^2\left(a^2-b^2\right)d}-\frac{\left(Ab^2-abB+a^2C\right)\text{Sec}[c+dx]^{5/2}\,\text{Sin}[c+dx]}{b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+dx])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Sec}[c+dx]^{3/2}\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)}{(a+b\,\text{Sec}[c+dx])^2},x,9,0\right\}$$

$$-\frac{\left(Ab^2-abB+3a^2C-2b^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{b^2\left(a^2-b^2\right)d}-$$

$$\frac{\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{ab\left(a^2-b^2\right)d}+$$

$$\frac{\left(a^2Ab^2+Ab^4+a^3bB-3ab^3B-3a^4C+5a^2b^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]\sqrt{\text{Sec}[c+dx]}}{a(a-b)b^2(a+b)^2d}+$$

$$\frac{\left(Ab^2-abB+3a^2C-2b^2C\right)\sqrt{\text{Sec}[c+dx]}\,\text{Sin}[c+dx]}{b^2\left(a^2-b^2\right)d}-\frac{\left(Ab^2-abB+a^2C\right)\text{Sec}[c+dx]^{3/2}\,\text{Sin}[c+dx]}{b\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+dx])}$$

???

Unable to integrate:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]}\,\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^2},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a b\left(a^2-b^2\right) d}+$$

$$\frac{\left(2 a^2 A-A b^2-a b B+a^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^2\left(a^2-b^2\right) d}-$$

$$\frac{\left(3 a^2 A b^2-A b^4-a^3 b B-a b^3 B-a^4 C+3 a^2 b^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\ \frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^2(a-b)\, b\,(a+b)^2 d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])}$$

$$\int\frac{\sqrt{\text{Sec}[c+d x]}\,\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)}{(a+b\,\text{Sec}[c+d x])^2}\,dx$$

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2}{\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(2 a^2 A-3 A b^2+a b B-a^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^2\left(a^2-b^2\right) d}-$$

$$\frac{\left(4 a^2 A b-3 A b^3-2 a^3 B+a b^2 B+a^2 b C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^3\left(a^2-b^2\right) d}+$$

$$\frac{\left(5 a^2 A b^2-3 A b^4-3 a^3 b B+a b^3 B+a^4 C+a^2 b^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\ \frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^3(a-b)\,(a+b)^2 d}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d\,(a+b\,\text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{3/2}\,(a+b\,\text{Sec}[c+d x])^2},\ x,\ 9,\ 0\right\}$$

$$-\frac{\left(4 a^2 A b-5 A b^3-2 a^3 B+3 a b^2 B-a^2 b C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^3\left(a^2-b^2\right) d}+$$

$$\frac{\left(2 a^4 A+16 a^2 A b^2-15 A b^4-12 a^3 b B+9 a b^3 B+6 a^4 C-3 a^2 b^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{3 a^4\left(a^2-b^2\right) d}-$$

$$\frac{b\left(7 a^2 A b^2-5 A b^4-5 a^3 b B+3 a b^3 B+3 a^4 C-a^2 b^2 C\right)\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\ \frac{1}{2}(c+d x),\ 2\right]\sqrt{\text{Sec}[c+d x]}}{a^4(a-b)\,(a+b)^2 d}+$$

$$\frac{\left(2 a^2 A-5 A b^2+3 a b B-3 a^2 C\right)\text{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right) d\sqrt{\text{Sec}[c+d x]}}+\frac{\left(A b^2-a b B+a^2 C\right)\text{Sin}[c+d x]}{a\left(a^2-b^2\right) d\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^2},\ x,\ 10,\ 0\right\}$$

$$\frac{\left(6\,a^4\,A+24\,a^2\,A\,b^2-35\,A\,b^4-20\,a^3\,b\,B+25\,a\,b^3\,B+10\,a^4\,C-15\,a^2\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{5\,a^4\,\left(a^2-b^2\right)\,d}-$$

$$\frac{1}{3\,a^5\,\left(a^2-b^2\right)\,d}\left(4\,a^4\,A\,b+20\,a^2\,A\,b^3-21\,A\,b^5-2\,a^5\,B-16\,a^3\,b^2\,B+15\,a\,b^4\,B+12\,a^4\,b\,C-9\,a^2\,b^3\,C\right)$$

$$\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}+$$

$$\frac{b^2\,\left(9\,a^2\,A\,b^2-7\,A\,b^4-7\,a^3\,b\,B+5\,a\,b^3\,B+5\,a^4\,C-3\,a^2\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{a^5\,(a-b)\,(a+b)^2\,d}+$$

$$\frac{\left(2\,a^2\,A-7\,A\,b^2+5\,a\,b\,B-5\,a^2\,C\right)\text{Sin}[c+d\,x]}{5\,a^2\,\left(a^2-b^2\right)\,d\,\text{Sec}[c+d\,x]^{3/2}}-\frac{\left(4\,a^2\,A\,b-7\,A\,b^3-2\,a^3\,B+5\,a\,b^2\,B-3\,a^2\,b\,C\right)\text{Sin}[c+d\,x]}{3\,a^3\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{a\,\left(a^2-b^2\right)\,d\,\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Sec}[c+d\,x]^{7/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 11,\ 0\right\}$$

$$\frac{1}{4\,b^4\,\left(a^2-b^2\right)^2\,d}\left(3\,a^3\,A\,b^2-9\,a\,A\,b^4-15\,a^4\,b\,B+29\,a^2\,b^3\,B-8\,b^5\,B+35\,a^5\,C-65\,a^3\,b^2\,C+24\,a\,b^4\,C\right)$$

$$\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}+$$

$$\frac{\left(3\,a^2\,A\,b^2-21\,A\,b^4-15\,a^3\,b\,B+33\,a\,b^3\,B+35\,a^4\,C-61\,a^2\,b^2\,C+8\,b^4\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}}{12\,b^3\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{1}{4\,(a-b)^2\,b^4\,(a+b)^3\,d}\left(3\,a^4\,A\,b^2-6\,a^2\,A\,b^4+15\,A\,b^6-15\,a^5\,b\,B+38\,a^3\,b^3\,B-35\,a\,b^5\,B+35\,a^6\,C-86\,a^4\,b^2\,C+63\,a^2\,b^4\,C\right)$$

$$\sqrt{\text{Cos}[c+d\,x]}\ \text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]\sqrt{\text{Sec}[c+d\,x]}-$$

$$\frac{\left(3\,a^3\,A\,b^2-9\,a\,A\,b^4-15\,a^4\,b\,B+29\,a^2\,b^3\,B-8\,b^5\,B+35\,a^5\,C-65\,a^3\,b^2\,C+24\,a\,b^4\,C\right)\sqrt{\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{4\,b^4\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^2\,A\,b^2-21\,A\,b^4-15\,a^3\,b\,B+33\,a\,b^3\,B+35\,a^4\,C-61\,a^2\,b^2\,C+8\,b^4\,C\right)\text{Sec}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{12\,b^3\,\left(a^2-b^2\right)^2\,d}-$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sec}[c+d\,x]^{7/2}\,\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{\left(a^2\,A\,b^2+5\,A\,b^4+3\,a^3\,b\,B-9\,a\,b^3\,B-7\,a^4\,C+13\,a^2\,b^2\,C\right)\text{Sec}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,(a+b\,\text{Sec}[c+d\,x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Sec}[c+d\,x]^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 10,\ 0\right\}$$

$$\frac{\left(a^2 A b^2+5 A b^4+3 a^3 b B-9 a b^3 B-15 a^4 C+29 a^2 b^2 C-8 b^4 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 b^3 \left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(3 a^2 A b^2+3 A b^4+a^3 b B-7 a b^3 B-5 a^4 C+11 a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a b^2 \left(a^2-b^2\right)^2 d}+$$

$$\frac{1}{4 a (a-b)^2 b^3 (a+b)^3 d}\left(a^4 A b^2-10 a^2 A b^4-3 A b^6+3 a^5 b B-6 a^3 b^3 B+15 a b^5 B-15 a^6 C+38 a^4 b^2 C-35 a^2 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}-$$

$$\frac{\left(a^2 A b^2+5 A b^4+3 a^3 b B-9 a b^3 B-15 a^4 C+29 a^2 b^2 C-8 b^4 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{4 b^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Sec}[c+d x]^{5/2} \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+\frac{\left(3 a^2 A b^2+3 A b^4+a^3 b B-7 a b^3 B-5 a^4 C+11 a^2 b^2 C\right) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Sec}[c+d x]^{3/2} \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3},x,9,0\right\}$$

$$-\frac{\left(5 a^2 A b^2+A b^4-a^3 b B-5 a b^3 B-3 a^4 C+9 a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a b^2 \left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(7 a^2 A b^2-A b^4-3 a^3 b B-3 a b^3 B-a^4 C+7 a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^2 b \left(a^2-b^2\right)^2 d}+$$

$$\frac{1}{4 a^2 (a-b)^2 b^2 (a+b)^3 d}\left(3 a^4 A b^2+10 a^2 A b^4-A b^6+a^5 b B-10 a^3 b^3 B-3 a b^5 B+3 a^6 C-6 a^4 b^2 C+15 a^2 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sec}[c+d x]^{3/2} \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(5 a^2 A b^2+A b^4-a^3 b B-5 a b^3 B-3 a^4 C+9 a^2 b^2 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{\text{Sec}[c+d x]}\ \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{(a+b \text{Sec}[c+d x])^3},x,9,0\right\}$$

$$\frac{\left(9 a^2 A b^2-3 A b^4-5 a^3 b B-a b^3 B+a^4 C+5 a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^2 b \left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(8 a^4 A-5 a^2 A b^2+3 A b^4-7 a^3 b B+a b^3 B+3 a^4 C+3 a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{1}{4 a^3 (a-b)^2 b (a+b)^3 d}\left(15 a^4 A b^2-6 a^2 A b^4+3 A b^6-3 a^5 b B-10 a^3 b^3 B+a b^5 B-a^6 C+10 a^4 b^2 C+3 a^2 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}-\frac{\left(A b^2-a b B+a^2 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}-$$

$$\frac{\left(7 a^2 A b^2-A b^4-3 a^3 b B-3 a b^3 B-a^4 C+7 a^2 b^2 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{4 a b \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\sqrt{\text{Sec}[c+d x]}\ (a+b \text{Sec}[c+d x])^3}, x, 9, 0\right\}$$

$$\frac{\left(8 a^4 A-29 a^2 A b^2+15 A b^4+9 a^3 b B-3 a b^3 B-5 a^4 C-a^2 b^2 C\right) \sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}}{4 a^3 \left(a^2-b^2\right)^2 d}-$$

$$\frac{1}{4 a^4 \left(a^2-b^2\right)^2 d}\left(24 a^4 A b-33 a^2 A b^3+15 A b^5-8 a^5 B+5 a^3 b^2 B-3 a b^4 B+7 a^4 b C-a^2 b^3 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}+\frac{1}{4 a^4 (a-b)^2 (a+b)^3 d}$$

$$\left(35 a^4 A b^2-38 a^2 A b^4+15 A b^6-15 a^5 b B+6 a^3 b^3 B-3 a b^5 B+3 a^6 C+10 a^4 b^2 C-a^2 b^4 C\right) \sqrt{\text{Cos}[c+d x]}$$

$$\text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right] \sqrt{\text{Sec}[c+d x]}+\frac{\left(A b^2-a b B+a^2 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{2 a \left(a^2-b^2\right) d (a+b \text{Sec}[c+d x])^2}+$$

$$\frac{\left(11 a^2 A b^2-5 A b^4-7 a^3 b B+a b^3 B+3 a^4 C+3 a^2 b^2 C\right) \sqrt{\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\text{Sec}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])^3}, x, 10, 0\right\}$$

$$-\frac{1}{4 a^4 \left(a^2-b^2\right)^2 d}\left(24 a^4 A b-65 a^2 A b^3+35 A b^5-8 a^5 B+29 a^3 b^2 B-15 a b^4 B-9 a^4 b C+3 a^2 b^3 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}+\frac{1}{12 a^5 \left(a^2-b^2\right)^2 d}$$

$$\left(8 a^6 A+128 a^4 A b^2-223 a^2 A b^4+105 A b^6-72 a^5 b B+99 a^3 b^3 B-45 a b^5 B+24 a^6 C-15 a^4 b^2 C+9 a^2 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}-\frac{1}{4 a^5 (a-b)^2 (a+b)^3 d}$$

$$b\left(63 a^4 A b^2-86 a^2 A b^4+35 A b^6-35 a^5 b B+38 a^3 b^3 B-15 a b^5 B+15 a^6 C-6 a^4 b^2 C+3 a^2 b^4 C\right)$$

$$\sqrt{\text{Cos}[c+d x]}\ \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]\sqrt{\text{Sec}[c+d x]}+$$

$$\frac{\left(8 a^4 A-61 a^2 A b^2+35 A b^4+33 a^3 b B-15 a b^3 B-21 a^4 C+3 a^2 b^2 C\right)\text{Sin}[c+d x]}{12 a^3 \left(a^2-b^2\right)^2 d\sqrt{\text{Sec}[c+d x]}}+$$

$$\frac{\left(A b^2-a b B+a^2 C\right)\text{Sin}[c+d x]}{2 a\left(a^2-b^2\right) d\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])^2}+\frac{\left(13 a^2 A b^2-7 A b^4-9 a^3 b B+3 a b^3 B+5 a^4 C+a^2 b^2 C\right)\text{Sin}[c+d x]}{4 a^2 \left(a^2-b^2\right)^2 d\sqrt{\text{Sec}[c+d x]}\,(a+b\,\text{Sec}[c+d x])}$$

???

Unable to integrate:

$$\left\{\text{Sec}[c+d x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),x,12,0\right\}$$

$$-\frac{(a+b)\left(24 A b^2+6 a b B-3 a^2 C+16 b^2 C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{a+b}}\ \text{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\text{Sec}[c+d x]}}{24 b^2 d\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(24 A b^2+18 a b B-a^2 C+16 b^2 C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{a+b}}\ \text{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\text{Sec}[c+d x]}}{24 b d\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(8 a A b^2-2 a^2 b B+8 b^3 B+a^3 C+4 a b^2 C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d x]}{a+b}}\ \text{EllipticPi}\left[2,\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\text{Sec}[c+d x]}}{8 b^2 d\sqrt{a+b\,\text{Sec}[c+d x]}}+$$

$$\frac{\left(24 A b^2+6 a b B-3 a^2 C+16 b^2 C\right)\sqrt{\text{Sec}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{24 b^2 d}+$$

$$\frac{(6 b B+a C)\,\text{Sec}[c+d x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{12 b d}+\frac{C\,\text{Sec}[c+d x]^{5/2}\sqrt{a+b\,\text{Sec}[c+d x]}\ \text{Sin}[c+d x]}{3 d}$$

$$\int\text{Sec}[c+d x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right)dx$$

Unable to integrate:

$$\left\{\sqrt{\text{Sec}[c+d x]}\sqrt{a+b\,\text{Sec}[c+d x]}\left(A+B\,\text{Sec}[c+d x]+C\,\text{Sec}[c+d x]^2\right),x,11,0\right\}$$

$$-\frac{(a+b)\,(4\,b\,B+a\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,a\,A+4\,b\,B+3\,a\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,A\,b^2+4\,a\,b\,B-a^2\,C+4\,b^2\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{4\,b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(4\,b\,B+a\,C)\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{4\,b\,d}+\frac{C\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{2\,d}$$

$$\int\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Sec}[c+d\,x]}},\,x,\,10,\,0\right\}$$

$$\frac{(a+b)\,(2\,A-C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,a\,B+b\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,b\,B+a\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{d}$$

$$\int\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{3/2}},\,x,\,10,\,0\right\}$$

$$\frac{2\,(a+b)\,(A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(a^2\,A-A\,b^2+3\,a^2\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b\,C\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\int \frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(9\,a^2\,A-2\,A\,b^2+5\,a\,b\,B+15\,a^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,a^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(2\,a^2\,A\,b-2\,A\,b^3-5\,a^3\,B+5\,a\,b^2\,B\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,a^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,A\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+\frac{2\,(A\,b+5\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,a\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\left(\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\,\left(9\,a^2\,A-2\,A\,b^2+5\,a\,b\,B+15\,a^2\,C\right)\mathrm{Cot}[c]}{15\,a^2\,d}+\right.\right.$$

$$\left.\left.\frac{4\,(A\,b+5\,a\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{15\,a\,d}+\frac{2\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,d}+\frac{4\,(A\,b+5\,a\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{15\,a\,d}+\frac{2\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{5/2}\right)-$$

$$\left(28\,A\,b\,\mathrm{AppellF1}\left[\frac{1}{2},\ \frac{1}{2},\ \frac{1}{2},\ \frac{3}{2},\ \frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(15\,a\,d\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\,\text{Csc}[c]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(3\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(4\,b\,C\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\,\mathrm{Csc}[c]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(a\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$6\,a\,A\,\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\Bigg(4\,A\,b^2\,\mathrm{Csc}[c]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\frac{\left(15\,a\,d\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\;(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\;\text{Sec}[c+d\,x]^{5/2}\right)-1}{3\,d\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\;(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\;\text{Sec}[c+d\,x]^{5/2}}$$

$$2\,b\,B\,\text{Csc}[c]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$2\,a\,C\,\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{7/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{2\,(a+b)\left(19\,a^2\,A\,b+8\,A\,b^3+63\,a^3\,B-14\,a\,b^2\,B+35\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{105\,a^3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^4\,A-17\,a^2\,A\,b^2-8\,A\,b^4-14\,a^3\,b\,B+14\,a\,b^3\,B+35\,a^4\,C-35\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{105\,a^3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$+\frac{2\,A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{7\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,(A\,b+7\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{35\,a\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\left(25\,a^2\,A-4\,A\,b^2+7\,a\,b\,B+35\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,a^2\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\left(\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\left(19\,a^2\,A\,b+8\,A\,b^3+63\,a^3\,B-14\,a\,b^2\,B+35\,a^2\,b\,C\right)\mathrm{Cot}[c]}{105\,a^3\,d}+\frac{\left(115\,a^2\,A-16\,A\,b^2+28\,a\,b\,B+140\,a^2\,C\right)\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{105\,a^2\,d}+\frac{2\,(A\,b+7\,a\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{35\,a\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{7\,d}+\frac{\left(115\,a^2\,A-16\,A\,b^2+28\,a\,b\,B+140\,a^2\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,a^2\,d}+\frac{2\,(A\,b+7\,a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{35\,a\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{5/2}\right)-$$

$$\left(20\,A\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(21\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left(\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(8\,A\,b^2\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(105\,a^2\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(28\, b\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(15\,a\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(4\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ \text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{105\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \text{Sec}[c+d\,x]^{5/2}}$$

$$38\,A\,b\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\left(16\,A\,b^3\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\frac{\left(105\,a^2\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\mathrm{Sec}[c+d\,x]^{5/2}\right)-1}{5\,d\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$6\,a\,B\,\mathrm{Csc}[c]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\Bigg(4\,b^2\,B\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{\left(15\,a\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\text{Sec}[c+d\,x]^{5/2}\right)-1}{3\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\text{Sec}[c+d\,x]^{5/2}}$$

$$2\,b\,C\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\ x,\ 10,\ 0\right\}$$

$$\frac{1}{315\,a^4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}2\,(a+b)\left(147\,a^4\,A-24\,a^2\,A\,b^2-16\,A\,b^4+57\,a^3\,b\,B+24\,a\,b^3\,B+189\,a^4\,C-42\,a^2\,b^2\,C\right)$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}-\frac{1}{315\,a^4\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\left(36\,a^4\,A\,b-20\,a^2\,A\,b^3-16\,A\,b^5-75\,a^5\,B+51\,a^3\,b^2\,B+24\,a\,b^4\,B+42\,a^4\,b\,C-42\,a^2\,b^3\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}$$

$$\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{2\,A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}+$$

$$\frac{2\,(A\,b+9\,a\,B)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{63\,a\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\left(49\,a^2\,A-6\,A\,b^2+9\,a\,b\,B+63\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{315\,a^2\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\left(13\,a^2\,A\,b+8\,A\,b^3+75\,a^3\,B-12\,a\,b^2\,B+21\,a^2\,b\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{315\,a^3\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,\mathrm{Sec}[c+dx]^{5/2}}\sqrt{a+b\,\mathrm{Sec}[c+dx]}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{4\left(147a^4A-24a^2Ab^2-16Ab^4+57a^3bB+24ab^3B+189a^4C-42a^2b^2C\right)\mathrm{Cot}[c]}{315a^4d}+\right.$$

$$\frac{\left(57a^2Ab+32Ab^3+345a^3B-48ab^2B+84a^2bC\right)\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{315a^3d}+$$

$$\frac{\left(133a^2A-12Ab^2+18abB+126a^2C\right)\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{315a^2d}+\frac{(Ab+9aB)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{63ad}+$$

$$\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{18d}+\frac{\left(57a^2Ab+32Ab^3+345a^3B-48ab^2B+84a^2bC\right)\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{315a^3d}+$$

$$\left.\frac{\left(133a^2A-12Ab^2+18abB+126a^2C\right)\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{315a^2d}+\frac{(Ab+9aB)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{63ad}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{18d}\right)-$$

$$\left(148Ab\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+dx]}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(105ad\sqrt{b+a\,\mathrm{Cos}[c+dx]}\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+dx]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(16\,A\,b^3\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(315\,a^3\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left(\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}-\right.$$

$$\left(20\,B\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(21\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(8 b^2 B \text{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}\right] \text{Csc}[c] \sqrt{a + b \text{Sec}[c + d x]}\right.$$

$$\left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sec}[d x - \text{ArcTan}[\text{Cot}[c]]] \sqrt{-1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} \sqrt{b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(105 a^2 d \sqrt{b + a \text{Cos}[c + d x]} \left(A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]\right) \sqrt{1 + \text{Cot}[c]^2} \text{Sec}[c + d x]^{5/2}\right.$$

$$\sqrt{-1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}$$

$$\left.\sqrt{1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}\right) -$$

$$\left(28 b C \text{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ \text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(15\,a\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{15\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \text{Sec}[c+d\,x]^{5/2}}$$

$$14\,a\,A\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\left(16\,A\,b^2\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(105\, a\, d\, \sqrt{b + a \operatorname{Cos}[c + d x]}\, \left(A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x]\right) \operatorname{Sec}[c + d x]^{5/2}\right) +$$

$$\Bigg(32\, A\, b^4 \operatorname{Csc}[c] \sqrt{a + b \operatorname{Sec}[c + d x]}\, \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right)$$

$$\Bigg(-\frac{\frac{\operatorname{Sin}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1 + \operatorname{Tan}[c]^2}} + \frac{2 a \operatorname{Cos}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a^2 \operatorname{Cos}[c]^2 + a^2 \operatorname{Sin}[c]^2}}{\sqrt{b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}}} +$$

$$\Bigg(\operatorname{AppellF1}\Big[-\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}, -\frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2} \left(1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}}\right)},$$

$$-\frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2} \left(-1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}}\right)}\Big] \operatorname{Sin}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]$$

$$\operatorname{Tan}[c] \sqrt{-1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}} + \frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2}}}$$

$$\sqrt{1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}} + \frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2}}}\Bigg) \Bigg/$$

$$\Bigg(\sqrt{-1 + \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]}\, \sqrt{1 + \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]}\, \sqrt{1 + \operatorname{Tan}[c]^2}$$

$$\sqrt{b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{1}{105\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{5/2}}\left(315\,a^3\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{5/2}\right)-$$

$$38\,b\,B\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\left(16\,b^3\,B\,\text{Csc}[c]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{\left(105\,a^2\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\mathrm{Sec}[c+d\,x]^{5/2}\right)-1}{5\,d\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\mathrm{Sec}[c+d\,x]^{5/2}}$$

$$6\,a\,C\,\mathrm{Csc}[c]\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\Bigg(4\,b^2\,C\,\text{Csc}[c]\sqrt{a+b\,\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(15\,a\,d\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\text{Sec}[c+d\,x]^{5/2}\right)$$

Unable to integrate:

$$\left\{\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 13,\ 0\right\}$$

$$-\frac{(a+b)\left(240\,a\,A\,b^2+24\,a^2\,b\,B+128\,b^3\,B-9\,a^3\,C+156\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{192\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(336\,a\,A\,b^2+136\,a^2\,b\,B+128\,b^3\,B-3\,a^3\,C+228\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{192\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{1}{64\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\left(48\,a^2\,A\,b^2+64\,A\,b^4-8\,a^3\,b\,B+96\,a\,b^3\,B+3\,a^4\,C+24\,a^2\,b^2\,C+48\,b^4\,C\right)$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}+$$

$$\frac{\left(240\,a\,A\,b^2+24\,a^2\,b\,B+128\,b^3\,B-9\,a^3\,C+156\,a\,b^2\,C\right)\sqrt{\mathrm{Sec}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{192\,b^2\,d}+$$

$$\frac{\left(48\,A\,b^2+56\,a\,b\,B+3\,a^2\,C+36\,b^2\,C\right)\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{96\,b\,d}+$$

$$\frac{(8\,b\,B+3\,a\,C)\,\mathrm{Sec}[c+d\,x]^{5/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{24\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{4\,d}$$

$$\int\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\left(24\,A\,b^2+30\,a\,b\,B+3\,a^2\,C+16\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^2\,A+24\,A\,b^2+42\,a\,b\,B+17\,a^2\,C+16\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{24\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(24\,a\,A\,b^2+6\,a^2\,b\,B+8\,b^3\,B-a^3\,C+12\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{8\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(24\,A\,b^2+30\,a\,b\,B+3\,a^2\,C+16\,b^2\,C\right)\sqrt{\mathrm{Sec}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{24\,b\,d}+$$

$$\frac{(2\,b\,B+a\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\int\sqrt{\mathrm{Sec}[c+d\,x]}\;(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\,x,\,11,\,0\right\}$$

$$\frac{(a+b)\,(8\,a\,A-4\,b\,B-5\,a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,a\,A\,b+8\,a^2\,B+4\,b^2\,B+7\,a\,b\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,A\,b^2+12\,a\,b\,B+3\,a^2\,C+4\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,b\,B+3\,a\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,d}+\frac{C\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{2\,d}$$

$$\int\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}},\,x,\,11,\,0\right\}$$

$$\frac{(a+b)\,(8\,A\,b+6\,a\,B-3\,b\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a^2\,A-2\,A\,b^2+6\,a\,b\,B+6\,a^2\,C+3\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(2\,b\,B+3\,a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{b\,(2\,A-3\,C)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\int\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{5/2}},\,x,\,11,\,0\right\}$$

$$\frac{2(a+b)\left(9a^2A+3Ab^2+20abB+15a^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{15ad\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(3a^2Ab-3Ab^3+5a^3B-5ab^2B+15a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{15ad\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2b^2C\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2(3Ab+5aB)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{15d\sqrt{\operatorname{Sec}[c+dx]}}+\frac{2A(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{5d\operatorname{Sec}[c+dx]^{3/2}}$$

$$\int\frac{(a+b\operatorname{Sec}[c+dx])^{3/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{5/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{3/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{7/2}},x,9,0\right\}$$

$$\frac{2(a+b)\left(82a^2Ab-6Ab^3+63a^3B+21ab^2B+140a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{105a^2d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(25a^4A-31a^2Ab^2+6Ab^4+21a^3bB-21ab^3B+35a^4C-35a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{105a^2d\sqrt{a+b\operatorname{Sec}[c+dx]}}$$

$$+\frac{2(3Ab+7aB)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{35d\operatorname{Sec}[c+dx]^{3/2}}+$$

$$\frac{2\left(25a^2A+3Ab^2+42abB+35a^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{105ad\sqrt{\operatorname{Sec}[c+dx]}}+\frac{2A(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{7d\operatorname{Sec}[c+dx]^{5/2}}$$

$$\Bigg((a+b\operatorname{Sec}[c+dx])^{3/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{4\left(82a^2Ab-6Ab^3+63a^3B+21ab^2B+140a^2bC\right)\operatorname{Cot}[c]}{105a^2d}+\frac{\left(115a^2A+12Ab^2+168abB+140a^2C\right)\operatorname{Cos}[dx]\operatorname{Sin}[c]}{105ad}+$$

$$\frac{2(8Ab+7aB)\operatorname{Cos}[2dx]\operatorname{Sin}[2c]}{35d}+\frac{aA\operatorname{Cos}[3dx]\operatorname{Sin}[3c]}{7d}+\frac{\left(115a^2A+12Ab^2+168abB+140a^2C\right)\operatorname{Cos}[c]\operatorname{Sin}[dx]}{105ad}+$$

$$\frac{2\,(8\,A\,b+7\,a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{35\,d}+\frac{a\,A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}\Bigg)\Bigg)\Bigg/$$

$$\left((b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)-$$

$$\Bigg(20\,a\,A\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\left(68\,A\,b^2\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(35\,a\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{7/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(16\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ \text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(5\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,a\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\ \text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,b^2\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(164\,a\,A\,b\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(105\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)+$$

$$\Bigg(4\,A\,b^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(35\,a\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)-$$

$$\Bigg(6\,a^2\,B\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(5\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\Big)-$$

$$\Bigg(2\,b^2\,B\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)-$$

$$\left(8\,a\,b\,C\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Sec}[c+d\,x]^{9/2}},\ x,\ 10,\ 0\right\}$$

$$\frac{1}{315\,a^3\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}2\,(a+b)\left(147\,a^4\,A+33\,a^2\,A\,b^2+8\,A\,b^4+246\,a^3\,b\,B-18\,a\,b^3\,B+189\,a^4\,C+63\,a^2\,b^2\,C\right)$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\ \text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{1}{315\,a^3\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\left(39\,a^4\,A\,b-31\,a^2\,A\,b^3-8\,A\,b^5+75\,a^5\,B-93\,a^3\,b^2\,B+18\,a\,b^4\,B+63\,a^4\,b\,C-63\,a^2\,b^3\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}$$

$$\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{2\,(A\,b+3\,a\,B)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{21\,d\,\text{Sec}[c+d\,x]^{5/2}}+$$

$$\frac{2\left(49\,a^2\,A+3\,A\,b^2+72\,a\,b\,B+63\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{315\,a\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\left(88\,a^2\,A\,b-4\,A\,b^3+75\,a^3\,B+9\,a\,b^2\,B+126\,a^2\,b\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\ \text{Sin}[c+d\,x]}{315\,a^2\,d\sqrt{\text{Sec}[c+d\,x]}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\left(147\,a^4\,A+33\,a^2\,A\,b^2+8\,A\,b^4+246\,a^3\,b\,B-18\,a\,b^3\,B+189\,a^4\,C+63\,a^2\,b^2\,C\right)\mathrm{Cot}[c]}{315\,a^3\,d}+\right.$$

$$\frac{\left(402\,a^2\,A\,b-16\,A\,b^3+345\,a^3\,B+36\,a\,b^2\,B+504\,a^2\,b\,C\right)\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{315\,a^2\,d}+$$

$$\frac{\left(133\,a^2\,A+6\,A\,b^2+144\,a\,b\,B+126\,a^2\,C\right)\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{315\,a\,d}+\frac{(10\,A\,b+9\,a\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{63\,d}+$$

$$\frac{a\,A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{18\,d}+\frac{\left(402\,a^2\,A\,b-16\,A\,b^3+345\,a^3\,B+36\,a\,b^2\,B+504\,a^2\,b\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{315\,a^2\,d}+$$

$$\left.\frac{\left(133\,a^2\,A+6\,A\,b^2+144\,a\,b\,B+126\,a^2\,C\right)\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{315\,a\,d}+\frac{(10\,A\,b+9\,a\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{63\,d}+\frac{a\,A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{18\,d}\right)-$$

$$\left(248\,A\,b\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(105\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{7/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(8\,A\,b^3\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Big/$$

$$\Bigg(315\,a^2\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(20\,a\,B\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\left(68\, b^2\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(35\,a\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{7/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(16\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ \text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(5\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{7/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(14\,a^2\,A\,\text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)-$$

$$\Bigg(22\,A\,b^2\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(105\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\Big)-$$

$$\Bigg(16\,A\,b^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(315\,a^2\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)-$$

$$\left(164\,a\,b\,B\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(105\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)+$$

$$\Bigg(4\,b^3\,B\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(35\,a\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\right)-$$

$$\Bigg(6\,a^2\,C\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(5\,d\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{7/2}\Big)-$$

$$\Bigg(2\,b^2\,C\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{7/2}\right)$$

Unable to integrate:

$$\left\{\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 13,\ 0\right\}$$

$$-\frac{(a+b)\left(432\,a\,A\,b^2+264\,a^2\,b\,B+128\,b^3\,B+15\,a^3\,C+284\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{192\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(384\,a^3\,A+528\,a\,A\,b^2+472\,a^2\,b\,B+128\,b^3\,B+133\,a^3\,C+356\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{192\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{1}{64\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\left(240\,a^2\,A\,b^2+64\,A\,b^4+40\,a^3\,b\,B+160\,a\,b^3\,B-5\,a^4\,C+120\,a^2\,b^2\,C+48\,b^4\,C\right)$$

$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}+$$

$$\frac{\left(432\,a\,A\,b^2+264\,a^2\,b\,B+128\,b^3\,B+15\,a^3\,C+284\,a\,b^2\,C\right)\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{192\,b\,d}+$$

$$\frac{\left(16\,A\,b^2+24\,a\,b\,B+5\,a^2\,C+12\,b^2\,C\right)\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{32\,d}+$$

$$\frac{(8\,b\,B+5\,a\,C)\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{24\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{4\,d}$$

$$\int\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)dx$$

Unable to integrate:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Sec}[c+d\,x]}},\ x,\ 12,\ 0\right\}$$

$$\frac{(a+b)\left(48a^2A-24Ab^2-54abB-33a^2C-16b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{24d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(96a^2Ab+24Ab^3+48a^3B+66ab^2B+59a^2bC+16b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{24d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(40aAb^2+30a^2bB+8b^3B+5a^3C+20ab^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{8d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(24Ab^2+42abB+15a^2C+16b^2C\right)\sqrt{\operatorname{Sec}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{24d}+$$

$$\frac{(6bB+5aC)\sqrt{\operatorname{Sec}[c+dx]}(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{12d}+\frac{C\sqrt{\operatorname{Sec}[c+dx]}(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{3d}$$

$$\int\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\sqrt{\operatorname{Sec}[c+dx]}}\,dx$$

Unable to integrate:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{3/2}},x,12,0\right\}$$

$$\frac{(a+b)\left(56aAb+24a^2B-12b^2B-27abC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{12d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(8a^3A+16aAb^2+48a^2bB+12b^3B+24a^3C+33ab^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{12d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{b\left(8Ab^2+20abB+15a^2C+4b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{4d\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{b(8aA-12bB-21aC)\sqrt{\operatorname{Sec}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{12d}-$$

$$\frac{b(4A-3C)\sqrt{\operatorname{Sec}[c+dx]}(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{6d}+\frac{2A(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{3d\sqrt{\operatorname{Sec}[c+dx]}}$$

$$\int\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{5/2}},x,12,0\right\}$$

$$\frac{(a+b)\left(18a^2A+46Ab^2+70abB+30a^2C-15b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{15d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(16a^2Ab-16Ab^3+10a^3B+20ab^2B+60a^2bC+15b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{15d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{b^2(2bB+5aC)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{d\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{b(16Ab+10aB-15bC)\sqrt{\operatorname{Sec}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{15d}+$$

$$\frac{2(Ab+aB)(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{3d\sqrt{\operatorname{Sec}[c+dx]}}+\frac{2A(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{5d\operatorname{Sec}[c+dx]^{3/2}}$$

$$\int\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{7/2}},x,12,0\right\}$$

$$\frac{2(a+b)\left(145a^2Ab+15Ab^3+63a^3B+161ab^2B+245a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{105ad\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{1}{105ad\sqrt{a+b\operatorname{Sec}[c+dx]}}2\left(25a^4A-10a^2Ab^2-15Ab^4+56a^3bB-56ab^3B+35a^4C+70a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}$$

$$\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}+\frac{2b^3C\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(25a^2A+15Ab^2+56abB+35a^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{105d\sqrt{\operatorname{Sec}[c+dx]}}+$$

$$\frac{2(5Ab+7aB)(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{35d\operatorname{Sec}[c+dx]^{3/2}}+\frac{2A(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{7d\operatorname{Sec}[c+dx]^{5/2}}$$

$$\int\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{7/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Sec}[c+dx]^{9/2}},x,10,0\right\}$$

$$\frac{1}{315\,a^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,2\,(a+b)\,\left(147\,a^4\,A+279\,a^2\,A\,b^2-10\,A\,b^4+435\,a^3\,b\,B+45\,a\,b^3\,B+189\,a^4\,C+483\,a^2\,b^2\,C\right)$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{1}{315\,a^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$2\,\left(114\,a^4\,A\,b-124\,a^2\,A\,b^3+10\,A\,b^5+75\,a^5\,B-30\,a^3\,b^2\,B-45\,a\,b^4\,B+168\,a^4\,b\,C-168\,a^2\,b^3\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}$$

$$\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{2\,\left(49\,a^2\,A+15\,A\,b^2+90\,a\,b\,B+63\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{315\,d\,\text{Sec}[c+d\,x]^{3/2}}+$$

$$\frac{2\,\left(163\,a^2\,A\,b+5\,A\,b^3+75\,a^3\,B+135\,a\,b^2\,B+231\,a^2\,b\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{315\,a\,d\,\sqrt{\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(5\,A\,b+9\,a\,B)\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{63\,d\,\text{Sec}[c+d\,x]^{5/2}}+\frac{2\,A\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{9\,d\,\text{Sec}[c+d\,x]^{7/2}}$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,\left(147\,a^4\,A+279\,a^2\,A\,b^2-10\,A\,b^4+435\,a^3\,b\,B+45\,a\,b^3\,B+189\,a^4\,C+483\,a^2\,b^2\,C\right)\text{Cot}[c]}{315\,a^2\,d}+\right.$$

$$\frac{\left(747\,a^2\,A\,b+20\,A\,b^3+345\,a^3\,B+540\,a\,b^2\,B+924\,a^2\,b\,C\right)\text{Cos}[d\,x]\,\text{Sin}[c]}{315\,a\,d}+$$

$$\frac{\left(133\,a^2\,A+150\,A\,b^2+270\,a\,b\,B+126\,a^2\,C\right)\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{315\,d}+\frac{a\,(19\,A\,b+9\,a\,B)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{63\,d}+$$

$$\frac{a^2\,A\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{18\,d}+\frac{\left(747\,a^2\,A\,b+20\,A\,b^3+345\,a^3\,B+540\,a\,b^2\,B+924\,a^2\,b\,C\right)\text{Cos}[c]\,\text{Sin}[d\,x]}{315\,a\,d}+$$

$$\frac{\left(133\,a^2\,A+150\,A\,b^2+270\,a\,b\,B+126\,a^2\,C\right)\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{315\,d}+$$

$$\left.\frac{a\,(19\,A\,b+9\,a\,B)\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{63\,d}+\frac{a^2\,A\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{18\,d}\right)-$$

$$\left(116\,a\,A\,b\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(35\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(124\,A\,b^3\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(63\,a\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(20\,a^2\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(21\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(36\,b^2\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{9/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(68\,a\,b\,C\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{9/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,b^3\,C\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\;-$$

$$\Bigg(14\,a^3\,A\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(15\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\Big)-$$

$$\Bigg(62\,a\,A\,b^2\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(35\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)+$$

$$\left(4\,A\,b^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(63\,a\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\Big)-$$

$$\Bigg(58\,a^2\,b\,B\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)-$$

$$\Bigg(2\,b^3\,B\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(7\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)-$$

$$\Bigg(6\,a^3\,C\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\right)-$$

$$\Bigg(46\,a\,b^2\,C\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Sec}[c+d\,x]^{11/2}},\ x,\ 11,\ 0\right\}$$

$$\frac{1}{3465\,a^3\,d\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$
$$2\,(a+b)\,\left(3705\,a^4\,A\,b+255\,a^2\,A\,b^3+40\,A\,b^5+1617\,a^5\,B+3069\,a^3\,b^2\,B-110\,a\,b^4\,B+4785\,a^4\,b\,C+495\,a^2\,b^3\,C\right)$$
$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\ \mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}+\frac{1}{3465\,a^3\,d\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$
$$2\,\left(675\,a^6\,A-390\,a^4\,A\,b^2-245\,a^2\,A\,b^4-40\,A\,b^6+1254\,a^5\,b\,B-1364\,a^3\,b^3\,B+110\,a\,b^5\,B+825\,a^6\,C-330\,a^4\,b^2\,C-495\,a^2\,b^4\,C\right)$$
$$\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\ \mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}+$$
$$\frac{2\,\left(27\,a^2\,A+5\,A\,b^2+44\,a\,b\,B+33\,a^2\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{231\,d\,\mathrm{Sec}[c+d\,x]^{5/2}}+$$
$$\frac{2\,\left(1145\,a^2\,A\,b+15\,A\,b^3+539\,a^3\,B+825\,a\,b^2\,B+1485\,a^2\,b\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3465\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}+$$
$$\frac{2\,\left(675\,a^4\,A+1025\,a^2\,A\,b^2-20\,A\,b^4+1793\,a^3\,b\,B+55\,a\,b^3\,B+825\,a^4\,C+1485\,a^2\,b^2\,C\right)\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\ \mathrm{Sin}[c+d\,x]}{3465\,a^2\,d\sqrt{\mathrm{Sec}[c+d\,x]}}+$$
$$\frac{2\,(5\,A\,b+11\,a\,B)\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{99\,d\,\mathrm{Sec}[c+d\,x]^{7/2}}+\frac{2\,A\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\mathrm{Sin}[c+d\,x]}{11\,d\,\mathrm{Sec}[c+d\,x]^{9/2}}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}}$$

$$(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,\left(3705\,a^4\,A\,b+255\,a^2\,A\,b^3+40\,A\,b^5+1617\,a^5\,B+3069\,a^3\,b^2\,B-110\,a\,b^4\,B+4785\,a^4\,b\,C+495\,a^2\,b^3\,C\right)\,\mathrm{Cot}[c]}{3465\,a^3\,d}+\right.$$

$$\frac{\left(6525\,a^4\,A+9330\,a^2\,A\,b^2-160\,A\,b^4+16\,434\,a^3\,b\,B+440\,a\,b^3\,B+7590\,a^4\,C+11\,880\,a^2\,b^2\,C\right)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{6930\,a^2\,d}+$$

$$\frac{\left(3095\,a^2\,A\,b+30\,A\,b^3+1463\,a^3\,B+1650\,a\,b^2\,B+2970\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{3465\,a\,d}+$$

$$\frac{\left(513\,a^2\,A+452\,A\,b^2+836\,a\,b\,B+396\,a^2\,C\right)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{2772\,d}+$$

$$\frac{a\,(23\,A\,b+11\,a\,B)\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{198\,d}+\frac{a^2\,A\,\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{44\,d}+$$

$$\frac{\left(6525\,a^4\,A+9330\,a^2\,A\,b^2-160\,A\,b^4+16\,434\,a^3\,b\,B+440\,a\,b^3\,B+7590\,a^4\,C+11\,880\,a^2\,b^2\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{6930\,a^2\,d}+$$

$$\frac{\left(3095\,a^2\,A\,b+30\,A\,b^3+1463\,a^3\,B+1650\,a\,b^2\,B+2970\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{3465\,a\,d}+$$

$$\frac{\left(513\,a^2\,A+452\,A\,b^2+836\,a\,b\,B+396\,a^2\,C\right)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{2772\,d}+$$

$$\left.\frac{a\,(23\,A\,b+11\,a\,B)\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{198\,d}+\frac{a^2\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{44\,d}\right)-$$

$$\left(60\,a^2\,A\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(77\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(884\,A\,b^2\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(231\, d\, (b + a \operatorname{Cos}[c + d x])^{5/2}\, (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])\, \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sec}[c + d x]^{9/2}$$

$$\sqrt{-1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}} - \frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2}}}$$

$$\sqrt{1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}} - \frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2}}}\Bigg) -$$

$$\Bigg(8 A b^4 \operatorname{AppellF1}\Bigg[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2} \left(1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}}\right)},$$

$$\frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2} \left(-1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}}\right)}\Bigg] \operatorname{Csc}[c]\, (a + b \operatorname{Sec}[c + d x])^{5/2}$$

$$\left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\, \sqrt{-1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}\, \sqrt{b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1 - \frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2} \left(-1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}}\right)}}$$

$$\sqrt{1 - \frac{\operatorname{Csc}[c] \left(b - a \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1 + \operatorname{Cot}[c]^2} \left(1 + \frac{b \operatorname{Csc}[c]}{a \sqrt{1 + \operatorname{Cot}[c]^2}}\right)}}\Bigg) \Big/$$

$$\Bigg(693 a^2 d\, (b + a \operatorname{Cos}[c + d x])^{5/2}\, (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])\, \sqrt{1 + \operatorname{Cot}[c]^2}\, \operatorname{Sec}[c + d x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(116\,a\,b\,B\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(35\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(124\,b^3\,B\,\mathrm{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Big]\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Big/$$

$$\Bigg(63\,a\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\left(20\,a^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{9/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(36\,b^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ \text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(7\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{9/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(494\,a^2\,A\,b\,\text{Csc}[c]\ (a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(231\, d\, (b + a \operatorname{Cos}[c + d x])^{5/2}\, (A + 2 C + 2 B \operatorname{Cos}[c + d x] + A \operatorname{Cos}[2 c + 2 d x])\, \operatorname{Sec}[c + d x]^{9/2}\right) -$$

$$\Bigg(34 A b^3 \operatorname{Csc}[c]\, (a + b \operatorname{Sec}[c + d x])^{5/2} \left(A + B \operatorname{Sec}[c + d x] + C \operatorname{Sec}[c + d x]^2\right)$$

$$\Bigg(-\frac{\frac{\operatorname{Sin}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}} + \frac{2 a \operatorname{Cos}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a^2 \operatorname{Cos}[c]^2 + a^2 \operatorname{Sin}[c]^2}}{\sqrt{b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}}} +$$

$$\Bigg(\operatorname{AppellF1}\Big[-\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}, -\frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2} \left(1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}\right)},$$

$$-\frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2} \left(-1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}\right)}\Big] \operatorname{Sin}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]$$

$$\operatorname{Tan}[c] \sqrt{-1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}} + \frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2}}}$$

$$\sqrt{1 - \frac{b \operatorname{Sec}[c]}{a \sqrt{1 + \operatorname{Tan}[c]^2}} + \frac{\operatorname{Sec}[c] \left(b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}\right)}{a \sqrt{1 + \operatorname{Tan}[c]^2}}}\Bigg) \Bigg/$$

$$\Bigg(\sqrt{-1 + \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]}\, \sqrt{1 + \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]]}\, \sqrt{1 + \operatorname{Tan}[c]^2}$$

$$\sqrt{b + a \operatorname{Cos}[c] \operatorname{Cos}[d x + \operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1 + \operatorname{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(231\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\Big)-$$

$$\Bigg(16\,A\,b^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(693\,a^2\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)-$$

$$\left(14\,a^3\,B\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)-$$

$$\Bigg(62\,a\,b^2\,B\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(35\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\right)+$$

$$\Bigg(4\, b^4\, B\, \mathrm{Csc}[c]\, (a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\, \left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(63\,a\,d\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{9/2}\Big)-$$

$$\Bigg(58\,a^2\,b\,C\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\right)-$$

$$\Bigg(2\,b^3\,C\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{9/2}\right)$$

Unable to integrate:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\ x,\ 11,\ 0\right\}$$

$$-\frac{(a+b)\,(4\,b\,B-3\,a\,C)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,b\,B-a\,C)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,A\,b^2-4\,a\,b\,B+3\,a^2\,C+4\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{4\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(4\,b\,B-3\,a\,C)\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{4\,b^2\,d}+\frac{C\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{2\,b\,d}$$

$$\int\frac{\mathrm{Sec}[c+d\,x]^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\ x,\ 10,\ 0\right\}$$

$$-\frac{(a+b)\,C\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,A+C)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,b\,B-a\,C)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{b\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{\text{Sec}[c+d\,x]}\;\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{b\,d}$$

$$\int\frac{\sqrt{\text{Sec}[c+d\,x]}\;\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Unable to integrate:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\;\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,9,\,0\right\}$$

$$\frac{2\,A\,(a+b)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(A\,b-a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{a\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\int\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Sec}[c+d\,x]}\;\sqrt{a+b\,\text{Sec}[c+d\,x]}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(a+b)\,(2\,A\,b-3\,a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(a^2\,A+2\,A\,b^2-3\,a\,b\,B+3\,a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a^2\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3\,a\,d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{(b+a\,\mathrm{Cos}[c+d\,x])\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(-2\,A\,b+3\,a\,B)\,\mathrm{Cot}[c]}{3\,a^2\,d}+\frac{4\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,a\,d}+\frac{4\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,a\,d}\right)}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\left(4\,A\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(3\,a\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(4\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\frac{1}{3\,a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$4\,A\,b\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d\,(A+2C+2B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$2\,B\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\;\mathrm{Csc}[c]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(9\,a^2\,A+8\,A\,b^2-10\,a\,b\,B+15\,a^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,a^3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(7\,a^2\,A\,b+8\,A\,b^3-5\,a^3\,B-10\,a\,b^2\,B+15\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d\,x]}}{15\,a^3\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,A\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{5\,a\,d\,\mathrm{Sec}[c+d\,x]^{3/2}}-\frac{2\,(4\,A\,b-5\,a\,B)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{15\,a^2\,d\,\sqrt{\mathrm{Sec}[c+d\,x]}}$$

$$\Bigg((b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{4\,\left(9\,a^2\,A+8\,A\,b^2-10\,a\,b\,B+15\,a^2\,C\right)\,\mathrm{Cot}[c]}{15\,a^3\,d}+\frac{4\,(-4\,A\,b+5\,a\,B)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{15\,a^2\,d}+$$

$$\frac{2\,A\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,a\,d}+\frac{4\,(-4\,A\,b+5\,a\,B)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{15\,a^2\,d}+\frac{2\,A\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,a\,d}\Bigg)\Bigg)\Bigg/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)-$$

$$\Bigg(8\,A\,b\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\,\frac{1}{2},\,\frac{1}{2},\,\frac{3}{2},\,\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\;\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(15 a^2 d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sec}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]}\right.$$

$$\sqrt{-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}\right)-$$

$$\left(4 B \operatorname{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right] \sqrt{b+a \operatorname{Cos}[c+d x]} \operatorname{Csc}[c]$$

$$\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{-1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\operatorname{Csc}[c]\left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(3 a d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sec}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\frac{1}{5\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$6\,A\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\Bigg(16\,A\,b^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\;\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\frac{\left(15\,a^2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+}{3\,a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$4\,b\,B\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$2\,C\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{7/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$-\frac{2\,(a+b)\left(44\,a^2\,A\,b+48\,A\,b^3-63\,a^3\,B-56\,a\,b^2\,B+70\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{105\,a^4\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{1}{105\,a^4\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}2\left(25\,a^4\,A+32\,a^2\,A\,b^2+48\,A\,b^4-49\,a^3\,b\,B-56\,a\,b^3\,B+35\,a^4\,C+70\,a^2\,b^2\,C\right)$$

$$\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}+\frac{2\,A\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{7\,a\,d\,\text{Sec}[c+d\,x]^{5/2}}-$$

$$\frac{2\,(6\,A\,b-7\,a\,B)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{35\,a^2\,d\,\text{Sec}[c+d\,x]^{3/2}}+\frac{2\left(25\,a^2\,A+24\,A\,b^2-28\,a\,b\,B+35\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,a^3\,d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\left((b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\left(-44\,a^2\,A\,b-48\,A\,b^3+63\,a^3\,B+56\,a\,b^2\,B-70\,a^2\,b\,C\right)\mathrm{Cot}[c]}{105\,a^4\,d}+\frac{\left(115\,a^2\,A+96\,A\,b^2-112\,a\,b\,B+140\,a^2\,C\right)\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{105\,a^3\,d}+\frac{2\,(-6\,A\,b+7\,a\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{35\,a^2\,d}+\frac{A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{7\,a\,d}+\frac{\left(115\,a^2\,A+96\,A\,b^2-112\,a\,b\,B+140\,a^2\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,a^3\,d}+\frac{2\,(-6\,A\,b+7\,a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{35\,a^2\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,a\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right)-$$

$$\left(20\,A\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(21\,a\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{3/2}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(16\,A\,b^2\,\mathrm{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Big]\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(35\,a^3\,d\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\left(8\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\right/$$

$$\left(15\,a^2\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(4\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,a\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(88\,A\,b\sqrt{b+a\,\text{Cos}[c+d\,x]}\ \text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(105\, a\, d\, \left(A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x]\right) \text{Sec}[c+d\, x]^{3/2} \sqrt{a+b\, \text{Sec}[c+d\, x]}\right)+$$

$$\left(32\, A\, b^3 \sqrt{b+a\, \text{Cos}[c+d\, x]}\, \text{Csc}[c]\, \left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\, a\, \text{Cos}[c]\, \left(b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}\right)}{a^2\, \text{Cos}[c]^2+a^2\, \text{Sin}[c]^2}}{\sqrt{b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\, \left(b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}\right)}{a\, \sqrt{1+\text{Tan}[c]^2}\, \left(1-\frac{b\, \text{Sec}[c]}{a\, \sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\, \left(b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}\right)}{a\, \sqrt{1+\text{Tan}[c]^2}\, \left(-1-\frac{b\, \text{Sec}[c]}{a\, \sqrt{1+\text{Tan}[c]^2}}\right)}\right]\, \text{Sin}[d\, x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\, \sqrt{-1-\frac{b\, \text{Sec}[c]}{a\, \sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\, \left(b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}\right)}{a\, \sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\, \text{Sec}[c]}{a\, \sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\, \left(b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}\right)}{a\, \sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]}\, \sqrt{1+\text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]}\, \sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\, \text{Cos}[c]\, \text{Cos}[d\, x+\text{ArcTan}[\text{Tan}[c]]]\, \sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{\left(35\,a^3\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)-1}{5\,d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$6\,B\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\left(16\,b^2\,B\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{1}{3\,a\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\Big(15\,a^2\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\Big)+$$

$$4\,b\,C\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Sec}[c+d\,x]}\left(a\,A+(A\,b+a\,B)\,\text{Sec}[c+d\,x]+b\,B\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 10,\ 0\right\}$$

$$-\frac{(a+b)\,B\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,a\,A+b\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,A\,b+a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{B\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d}$$

$$\frac{B\,(b+a\,\mathrm{Cos}[c+d\,x])\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{1}{4\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(\frac{8\,a\,A\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}+\right.$$

$$\frac{2\,(4\,A\,b+a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}}-\left(2\,i\,a\,B\,\sqrt{\frac{a-a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\sqrt{\frac{a+a\,\mathrm{Cos}[c+d\,x]}{a-b}}\right.$$

$$\mathrm{Cos}[2\,(c+d\,x)]\,\left(-2\,b\,(a+b)\,\mathrm{EllipticE}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$a\,\left(2\,b\,\mathrm{EllipticF}\left[i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]+\right.$$

$$\left.\left.\left.a\,\mathrm{EllipticPi}\left[1-\frac{a}{b},\,i\,\mathrm{ArcSinh}\left[\sqrt{\frac{1}{a-b}}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\right],\,\frac{-a+b}{a+b}\right]\right)\right)\,\mathrm{Sin}[c+d\,x]\right)\Bigg/$$

$$\left.\left(\sqrt{\frac{1}{a-b}}\,b\,\sqrt{1-\mathrm{Cos}[c+d\,x]^2}\,\sqrt{\frac{a^2-a^2\,\mathrm{Cos}[c+d\,x]^2}{a^2}}\,\left(-a^2+2\,b^2-4\,b\,(b+a\,\mathrm{Cos}[c+d\,x])+2\,(b+a\,\mathrm{Cos}[c+d\,x])^2\right)\right)\right)$$

Unable to integrate:

$$\left\{\frac{\mathrm{Sec}[c+d\,x]^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,11,\,0\right\}$$

$$-\frac{\left(2\,A\,b^2-2\,a\,b\,B+3\,a^2\,C-b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{(a-b)\,b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{C\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(2\,b\,B-3\,a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]\,\sqrt{\mathrm{Sec}[c+d\,x]}}{b^2\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(A\,b^2-a\,b\,B+a^2\,C\right)\,\mathrm{Sec}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{b\,\left(a^2-b^2\right)\,d\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{\left(2\,A\,b^2-2\,a\,b\,B+3\,a^2\,C-b^2\,C\right)\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{b^2\,\left(a^2-b^2\right)\,d}$$

$$\int\frac{\mathrm{Sec}[c+d\,x]^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}},\,x,\,10,\,0\right\}$$

$$\frac{2\left(A b^2-a b B+a^2 C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d x]}}{a(a-b)\,b\,d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}+$$

$$\frac{2 A\sqrt{\frac{b+a\,\mathrm{Cos}[c+d x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d x]}}{a\,d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}+$$

$$\frac{2 C\sqrt{\frac{b+a\,\mathrm{Cos}[c+d x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d x]}}{b\,d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}-\frac{2\left(A b^2-a b B+a^2 C\right)\sqrt{\mathrm{Sec}[c+d x]}\;\mathrm{Sin}[c+d x]}{b\left(a^2-b^2\right)d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}$$

$$\int\frac{\sqrt{\mathrm{Sec}[c+d x]}\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)}{(a+b\,\mathrm{Sec}[c+d x])^{3/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2}{\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^{3/2}},x,7,0\right\}$$

$$\frac{2\left(a^2 A-2 A b^2+a b B-a^2 C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d x]}}{a^2(a-b)\,d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}-$$

$$\frac{2(2 A b-a B)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\sqrt{\mathrm{Sec}[c+d x]}}{a^2 d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}+\frac{2\left(A b^2-a b B+a^2 C\right)\sqrt{\mathrm{Sec}[c+d x]}\;\mathrm{Sin}[c+d x]}{a\left(a^2-b^2\right)d\sqrt{a+b\,\mathrm{Sec}[c+d x]}}$$

$$\left((b+a\,\mathrm{Cos}[c+d x])^2\left(A+B\,\mathrm{Sec}[c+d x]+C\,\mathrm{Sec}[c+d x]^2\right)\right.$$

$$\left(-\frac{4\left(a^2 A-3 A b^2+2 a b B-2 a^2 C+a^2 A\,\mathrm{Cos}[2 c]-A b^2\,\mathrm{Cos}[2 c]\right)\mathrm{Csc}[2 c]}{a^2\left(a^2-b^2\right)d}-\right.$$

$$\left.\left.\frac{4\,\mathrm{Sec}[c]\left(A b^3\,\mathrm{Sin}[c]-a b^2 B\,\mathrm{Sin}[c]+a^2 b C\,\mathrm{Sin}[c]-a A b^2\,\mathrm{Sin}[d x]+a^2 b B\,\mathrm{Sin}[d x]-a^3 C\,\mathrm{Sin}[d x]\right)}{a^2\left(a^2-b^2\right)d\,(b+a\,\mathrm{Cos}[c+d x])}\right)\right)\Big/$$

$$\left((A+2 C+2 B\,\mathrm{Cos}[c+d x]+A\,\mathrm{Cos}[2 c+2 d x])\sqrt{\mathrm{Sec}[c+d x]}\,(a+b\,\mathrm{Sec}[c+d x])^{3/2}\right)-$$

$$\left(4 A b\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right.,\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\sqrt{\text{Sec}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(4\,B\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,b\,C\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg](b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(2\,a\,A\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left(\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\left(4\,A\,b^2\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(a\left(-a^2+b^2\right) d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+b\,\mathrm{Sec}[c+dx]\right)^{3/2}\right)+$$

$$\left(2bB\left(b+a\,\mathrm{Cos}[c+dx]\right)^{3/2}\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\right.$$

$$\left(-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/\right.$$

$$\left(\sqrt{-1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\Bigg(2\,a\,C\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\left(5\,a^2\,A\,b-8\,A\,b^3-3\,a^3\,B+6\,a\,b^2\,B-3\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a^3\,(a-b)\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(a^2\,A+8\,A\,b^2-6\,a\,b\,B+3\,a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{3\,a^3\,d\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\,\sqrt{\text{Sec}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\left(a^2\,A-4\,A\,b^2+3\,a\,b\,B-3\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\left(a^2-b^2\right)d\,\sqrt{\text{Sec}[c+d\,x]}}$$

$$\left((b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{1}{3\,a^3\left(a^2-b^2\right)d}4\left(-5\,a^2\,A\,b+11\,A\,b^3+3\,a^3\,B-9\,a\,b^2\,B+6\,a^2\,b\,C-5\,a^2\,A\,b\,\text{Cos}[2\,c]+5\,A\,b^3\,\text{Cos}[2\,c]+\right.\right.$$

$$\left.3\,a^3\,B\,\text{Cos}[2\,c]-3\,a\,b^2\,B\,\text{Cos}[2\,c]\right)\text{Csc}[2\,c]+\frac{4\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,a^2\,d}+\frac{4\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,a^2\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\left(A\,b^4\,\mathrm{Sin}[c]-a\,b^3\,B\,\mathrm{Sin}[c]+a^2\,b^2\,C\,\mathrm{Sin}[c]-a\,A\,b^3\,\mathrm{Sin}[d\,x]+a^2\,b^2\,B\,\mathrm{Sin}[d\,x]-a^3\,b\,C\,\mathrm{Sin}[d\,x]\right)}{a^3\,\left(a^2-b^2\right)\,d\,(b+a\,\mathrm{Cos}[c+d\,x])}\Bigg)\Bigg)\Bigg/$$

$$\left((A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\right)+$$

$$\Bigg(4\,A\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,\left(-a^2+b^2\right)\,d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\left(8\,A\,b^2\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right](b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(3\,a^2\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(4\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\sqrt{\text{Sec}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(4\,C\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(10\,A\,b\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(3\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)+$$

$$\Bigg(16\,A\,b^3\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(3 a^2 \left(-a^2+b^2\right) d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{\operatorname{Sec}[c+d x]} \left(a+b \operatorname{Sec}[c+d x]\right)^{3/2}\right)+$$

$$\left(2 a B \left(b+a \operatorname{Cos}[c+d x]\right)^{3/2} \operatorname{Csc}[c] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 a \operatorname{Cos}[c] \left(b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a^2 \operatorname{Cos}[c]^2+a^2 \operatorname{Sin}[c]^2}}{\sqrt{b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}+\right.$$

$$\left(\operatorname{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\operatorname{Sec}[c] \left(b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a \sqrt{1+\operatorname{Tan}[c]^2} \left(1-\frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\operatorname{Sec}[c] \left(b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a \sqrt{1+\operatorname{Tan}[c]^2} \left(-1-\frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}\right)}\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]$$

$$\operatorname{Tan}[c] \sqrt{-1-\frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}+\frac{\operatorname{Sec}[c] \left(b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a \sqrt{1+\operatorname{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b \operatorname{Sec}[c]}{a \sqrt{1+\operatorname{Tan}[c]^2}}+\frac{\operatorname{Sec}[c] \left(b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}\right)}{a \sqrt{1+\operatorname{Tan}[c]^2}}}\right) \Big/$$

$$\left(\sqrt{-1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Tan}[c]^2}\right.$$

$$\sqrt{b+a \operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\Bigg(4\,b^2\,B\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(a\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)+$$

$$\left(2\,b\,C\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 9,\ 0\right\}$$

$$\frac{2\left(9\,a^4\,A+24\,a^2\,A\,b^2-48\,A\,b^4-25\,a^3\,b\,B+40\,a\,b^3\,B+15\,a^4\,C-30\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,a^4\,(a-b)\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(12\,a^2\,A\,b+48\,A\,b^3-5\,a^3\,B-40\,a\,b^2\,B+30\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]\sqrt{\text{Sec}[c+d\,x]}}{15\,a^4\,d\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\,\text{Sec}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\left(a^2\,A-6\,A\,b^2+5\,a\,b\,B-5\,a^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,a^2\left(a^2-b^2\right)d\,\text{Sec}[c+d\,x]^{3/2}}-$$

$$\frac{2\left(9\,a^2\,A\,b-24\,A\,b^3-5\,a^3\,B+20\,a\,b^2\,B-15\,a^2\,b\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,a^3\left(a^2-b^2\right)d\sqrt{\text{Sec}[c+d\,x]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{3/2}}$$

$$(b+a\,\mathrm{Cos}[c+dx])^2\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{1}{15a^4\left(a^2-b^2\right)d}4\left(9a^4A+24a^2Ab^2-63Ab^4-25a^3bB+55ab^3B+15a^4C-45a^2b^2C+9a^4A\,\mathrm{Cos}[2c]+24a^2Ab^2\,\mathrm{Cos}[2c]-\right.\right.$$

$$\left.33Ab^4\,\mathrm{Cos}[2c]-25a^3bB\,\mathrm{Cos}[2c]+25ab^3B\,\mathrm{Cos}[2c]+15a^4C\,\mathrm{Cos}[2c]-15a^2b^2C\,\mathrm{Cos}[2c]\right)\mathrm{Csc}[2c]+$$

$$\frac{4(-9Ab+5aB)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{15a^3d}+\frac{2A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5a^2d}+\frac{4(-9Ab+5aB)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{15a^3d}-$$

$$\frac{4\,\mathrm{Sec}[c]\left(Ab^5\,\mathrm{Sin}[c]-ab^4B\,\mathrm{Sin}[c]+a^2b^3C\,\mathrm{Sin}[c]-aAb^4\,\mathrm{Sin}[dx]+a^2b^3B\,\mathrm{Sin}[dx]-a^3b^2C\,\mathrm{Sin}[dx]\right)}{a^4\left(a^2-b^2\right)d\,(b+a\,\mathrm{Cos}[c+dx])}+$$

$$\left.\frac{2A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5a^2d}\right)-$$

$$\left(4Ab\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right](b+a\,\mathrm{Cos}[c+dx])^{3/2}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(5a\left(-a^2+b^2\right)d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{3/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(16\,A\,b^3\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(5\,a^3\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(4\,B\,\mathrm{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Big]\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Csc}[c]$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Big/$$

$$\Bigg(3\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\sqrt{\mathrm{Sec}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\left(8\,b^2\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right](b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(3\,a^2\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(4\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\left(-a^2+b^2\right)d\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ \sqrt{\text{Sec}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^{3/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(6\,a\,A\ (b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(5\left(-a^2+b^2\right) d\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)\sqrt{\mathrm{Sec}[c+dx]}\left(a+b\,\mathrm{Sec}[c+dx]\right)^{3/2}\right)+$$

$$\Bigg(16\,A\,b^2\left(b+a\,\mathrm{Cos}[c+dx]\right)^{3/2}\mathrm{Csc}[c]\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(5\,a\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\Bigg(32\,A\,b^4\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Bigg/$$

$$\left(5\,a^3\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\left(10\,b\,B\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(3\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\Big)+$$

$$\Bigg(16\,b^3\,B\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\Big/$$

$$\left(3\,a^2\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)+$$

$$\Bigg(2\,a\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^{3/2}\,\mathrm{Csc}[c]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Big/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(\left(-a^2+b^2\right)d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{\text{Sec}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)-$$

$$\Bigg(4\,b^2\,C\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}[c]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b + a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x + \mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1 + \mathrm{Tan}[c]^2}}$$

$$\sqrt{1 + \frac{\mathrm{Sec}[c]\left(b + a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x + \mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1 + \mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1 + \mathrm{Tan}[c]^2}\left(-1 - \frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1 + \frac{\mathrm{Sec}[c]\left(b + a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x + \mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1 + \mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1 + \mathrm{Tan}[c]^2}\left(1 - \frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(a\left(-a^2 + b^2\right) d\,\left(A + 2\,C + 2\,B\,\mathrm{Cos}[c + d\,x] + A\,\mathrm{Cos}[2\,c + 2\,d\,x]\right)\sqrt{\mathrm{Sec}[c + d\,x]}\,\left(a + b\,\mathrm{Sec}[c + d\,x]\right)^{3/2}\right)$$

Unable to integrate:

$$\left\{\frac{\mathrm{Sec}[c + d\,x]^{5/2}\left(A + B\,\mathrm{Sec}[c + d\,x] + C\,\mathrm{Sec}[c + d\,x]^2\right)}{\left(a + b\,\mathrm{Sec}[c + d\,x]\right)^{5/2}}, x, 12, 0\right\}$$

$$\frac{\left(8\,A\,b^4 + 6\,a^3\,b\,B - 14\,a\,b^3\,B - 15\,a^4\,C + 26\,a^2\,b^2\,C - 3\,b^4\,C\right)\sqrt{\frac{b + a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c + d\,x), \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c + d\,x]}}{3\,(a - b)^2\,b^3\,(a + b)\,d\,\sqrt{a + b\,\mathrm{Sec}[c + d\,x]}} +$$

$$\frac{\left(2\,A\,b^2 - 2\,a\,b\,B + 5\,a^2\,C - 3\,b^2\,C\right)\sqrt{\frac{b + a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c + d\,x), \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c + d\,x]}}{3\,b^2\left(a^2 - b^2\right) d\,\sqrt{a + b\,\mathrm{Sec}[c + d\,x]}} +$$

$$\frac{(2\,b\,B - 5\,a\,C)\sqrt{\frac{b + a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2, \frac{1}{2}\,(c + d\,x), \frac{2\,a}{a+b}\right]\sqrt{\mathrm{Sec}[c + d\,x]}}{b^3\,d\,\sqrt{a + b\,\mathrm{Sec}[c + d\,x]}} - \frac{2\left(A\,b^2 - a\,b\,B + a^2\,C\right)\mathrm{Sec}[c + d\,x]^{5/2}\,\mathrm{Sin}[c + d\,x]}{3\,b\left(a^2 - b^2\right) d\,(a + b\,\mathrm{Sec}[c + d\,x])^{3/2}} +$$

$$\frac{2\left(a^2\,A\,b^2 + 3\,A\,b^4 + 2\,a^3\,b\,B - 6\,a\,b^3\,B - 5\,a^4\,C + 9\,a^2\,b^2\,C\right)\mathrm{Sec}[c + d\,x]^{3/2}\,\mathrm{Sin}[c + d\,x]}{3\,b^2\left(a^2 - b^2\right)^2 d\,\sqrt{a + b\,\mathrm{Sec}[c + d\,x]}} -$$

$$\frac{\left(8\,A\,b^4 + 6\,a^3\,b\,B - 14\,a\,b^3\,B - 15\,a^4\,C + 26\,a^2\,b^2\,C - 3\,b^4\,C\right)\sqrt{\mathrm{Sec}[c + d\,x]}\,\sqrt{a + b\,\mathrm{Sec}[c + d\,x]}\,\mathrm{Sin}[c + d\,x]}{3\,b^3\left(a^2 - b^2\right)^2 d}$$

$$\int \frac{\mathrm{Sec}[c + d\,x]^{5/2}\left(A + B\,\mathrm{Sec}[c + d\,x] + C\,\mathrm{Sec}[c + d\,x]^2\right)}{\left(a + b\,\mathrm{Sec}[c + d\,x]\right)^{5/2}}\,dx$$

Unable to integrate:

$$\left\{\frac{\mathrm{Sec}[c + d\,x]^{3/2}\left(A + B\,\mathrm{Sec}[c + d\,x] + C\,\mathrm{Sec}[c + d\,x]^2\right)}{\left(a + b\,\mathrm{Sec}[c + d\,x]\right)^{5/2}}, x, 11, 0\right\}$$

$$-\frac{2\left(3a^2Ab^2+Ab^4-4ab^3B-3a^4C+7a^2b^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{3a(a-b)^2b^2(a+b)\,d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{3ab\left(a^2-b^2\right)d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{2C\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{b^2d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}-\frac{2\left(Ab^2-abB+a^2C\right)\mathrm{Sec}[c+dx]^{3/2}\,\mathrm{Sin}[c+dx]}{3b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+dx])^{3/2}}+$$

$$\frac{2\left(3a^2Ab^2+Ab^4-4ab^3B-3a^4C+7a^2b^2C\right)\sqrt{\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{3b^2\left(a^2-b^2\right)^2d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}$$

$$\int\frac{\mathrm{Sec}[c+dx]^{3/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^{5/2}}\,dx$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\mathrm{Sec}[c+dx]}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}{(a+b\,\mathrm{Sec}[c+dx])^{5/2}},x,8,0\right\}$$

$$\frac{2\left(6a^2Ab-2Ab^3-3a^3B-ab^2B+4a^2bC\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{3a^2(a-b)^2(a+b)\,d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{2\left(3a^2A-2Ab^2-abB+a^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}}{3a^2\left(a^2-b^2\right)d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{3b\left(a^2-b^2\right)d\,(a+b\,\mathrm{Sec}[c+dx])^{3/2}}-$$

$$\frac{2\left(5a^2Ab^2-Ab^4-2a^3bB-2ab^3B-a^4C+5a^2b^2C\right)\sqrt{\mathrm{Sec}[c+dx]}\;\mathrm{Sin}[c+dx]}{3ab\left(a^2-b^2\right)^2d\sqrt{a+b\,\mathrm{Sec}[c+dx]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}}$$

$$(b+a\,\mathrm{Cos}[c+dx])^3\sqrt{\mathrm{Sec}[c+dx]}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(\frac{8\left(-6a^2Ab+2Ab^3+3a^3B+ab^2B-4a^2bC\right)\mathrm{Csc}[2c]}{3a^2\left(a^2-b^2\right)^2d}-\right.$$

$$\frac{4\,\mathrm{Sec}[c]\left(Ab^3\,\mathrm{Sin}[c]-ab^2B\,\mathrm{Sin}[c]+a^2bC\,\mathrm{Sin}[c]-aAb^2\,\mathrm{Sin}[dx]+a^2bB\,\mathrm{Sin}[dx]-a^3C\,\mathrm{Sin}[dx]\right)}{3a^2\left(a^2-b^2\right)d\,(b+a\,\mathrm{Cos}[c+dx])^2}+$$

$$\frac{1}{3 a^2 \left(a^2-b^2\right)^2 d (b+a \operatorname{Cos}[c+d x])} 4 \operatorname{Sec}[c] \left(7 a^2 A b^2 \operatorname{Sin}[c]-3 A b^4 \operatorname{Sin}[c]-4 a^3 b B \operatorname{Sin}[c]+a^4 C \operatorname{Sin}[c]+\right.$$

$$\left.\left.3 a^2 b^2 C \operatorname{Sin}[c]-6 a^3 A b \operatorname{Sin}[d x]+2 a A b^3 \operatorname{Sin}[d x]+3 a^4 B \operatorname{Sin}[d x]+a^2 b^2 B \operatorname{Sin}[d x]-4 a^3 b C \operatorname{Sin}[d x]\right)\right)-$$

$$\left(4 a A \operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right](b+a\operatorname{Cos}[c+d x])^{5/2}\operatorname{Csc}[c]\sqrt{\operatorname{Sec}[c+d x]}$$

$$\left(A+B\operatorname{Sec}[c+d x]+C\operatorname{Sec}[c+d x]^2\right)\operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\sqrt{-1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\sqrt{b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}}\right)\Bigg/$$

$$\left(\left(-a^2+b^2\right)^2 d (A+2 C+2 B\operatorname{Cos}[c+d x]+A\operatorname{Cos}[2 c+2 d x])\sqrt{1+\operatorname{Cot}[c]^2}(a+b\operatorname{Sec}[c+d x])^{5/2}\right.$$

$$\sqrt{-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}}}\right)-$$

$$\left(4 A b^2 \text{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}\right] (b + a \text{Cos}[c + d x])^{5/2} \text{Csc}[c] \sqrt{\text{Sec}[c + d x]}\right.$$

$$\left(A + B \text{Sec}[c + d x] + C \text{Sec}[c + d x]^2\right) \text{Sec}[d x - \text{ArcTan}[\text{Cot}[c]]] \sqrt{-1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} \sqrt{b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(3 a \left(-a^2 + b^2\right)^2 d \left(A + 2 C + 2 B \text{Cos}[c + d x] + A \text{Cos}[2 c + 2 d x]\right) \sqrt{1 + \text{Cot}[c]^2} (a + b \text{Sec}[c + d x])^{5/2}\right.$$

$$\sqrt{-1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}$$

$$\left.\sqrt{1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}\right) +$$

$$\left(16 b B \text{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,a\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,b^2\,C\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$4\,a\,A\,b\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\frac{1}{3\,a\,\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,4\,A\,b^3\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right.,\right.$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)+$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$2\,a^2\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,2\,b^2\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{3\left(-a^2+b^2\right)^2 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}}$$

$$8\,a\,b\,C\,(b+a\,\mathrm{Cos}[c+dx])^{5/2}\,\mathrm{Csc}[c]$$

$$\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2}{\sqrt{\mathrm{Sec}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(3a^4A-15a^2Ab^2+8Ab^4+6a^3bB-2ab^3B-3a^4C-a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{3a^3(a-b)^2(a+b)d\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{2\left(9a^2Ab-8Ab^3-3a^3B+2ab^2B+a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{3a^3\left(a^2-b^2\right)d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{3a\left(a^2-b^2\right)d(a+b\operatorname{Sec}[c+dx])^{3/2}}+$$

$$\frac{2\left(8a^2Ab^2-4Ab^4-5a^3bB+ab^3B+2a^4C+2a^2b^2C\right)\sqrt{\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)^2d\sqrt{a+b\operatorname{Sec}[c+dx]}}$$

$$\frac{1}{(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])(a+b\operatorname{Sec}[c+dx])^{5/2}}$$

$$(b+a\operatorname{Cos}[c+dx])^3\sqrt{\operatorname{Sec}[c+dx]}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\left(-\frac{1}{3a^3\left(a^2-b^2\right)^2d}\right.$$

$$4\left(3a^4A-24a^2Ab^2+13Ab^4+12a^3bB-4ab^3B-6a^4C-2a^2b^2C+3a^4A\operatorname{Cos}[2c]-6a^2Ab^2\operatorname{Cos}[2c]+3Ab^4\operatorname{Cos}[2c]\right)$$

$$\operatorname{Csc}[2c]+\frac{4\operatorname{Sec}[c]\left(Ab^4\operatorname{Sin}[c]-ab^3B\operatorname{Sin}[c]+a^2b^2C\operatorname{Sin}[c]-aAb^3\operatorname{Sin}[dx]+a^2b^2B\operatorname{Sin}[dx]-a^3bC\operatorname{Sin}[dx]\right)}{3a^3\left(a^2-b^2\right)d(b+a\operatorname{Cos}[c+dx])^2}-$$

$$\frac{1}{3a^3\left(a^2-b^2\right)^2d(b+a\operatorname{Cos}[c+dx])}4\operatorname{Sec}[c]\left(10a^2Ab^3\operatorname{Sin}[c]-6Ab^5\operatorname{Sin}[c]-7a^3b^2B\operatorname{Sin}[c]+\right.$$

$$3ab^4B\operatorname{Sin}[c]+4a^4bC\operatorname{Sin}[c]-9a^3Ab^2\operatorname{Sin}[dx]+5aAb^4\operatorname{Sin}[dx]+$$

$$\left.\left.6a^4bB\operatorname{Sin}[dx]-2a^2b^3B\operatorname{Sin}[dx]-3a^5C\operatorname{Sin}[dx]-a^3b^2C\operatorname{Sin}[dx]\right)\right)+$$

$$\left(8AbAppellF1\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right](b+a\operatorname{Cos}[c+dx])^{5/2}\operatorname{Csc}[c]\sqrt{\operatorname{Sec}[c+dx]}$$

$$\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\operatorname{Sec}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\sqrt{-1+\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1+\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\sqrt{b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(8\,A\,b^3\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(3\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,a\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(\left(-a^2+b^2\right)^2 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(4b^2B\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right](b+a\,\mathrm{Cos}[c+dx])^{5/2}\,\mathrm{Csc}[c]\sqrt{\mathrm{Sec}[c+dx]}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(3a\left(-a^2+b^2\right)^2 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(16\,b\,C\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\left(\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$2\,a^2\,A\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$10\,A\,b^2\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\frac{1}{3a^2\left(-a^2+b^2\right)^2 d\,(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}}$$

$$16\,A\,b^4\,(b+a\,\mathrm{Cos}[c+dx])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[dx+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$4\,a\,b\,B\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]$$

$$\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\frac{1}{3\,a\,\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,4\,b^3\,B\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right.,\right.$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\,\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)+$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$2\,a^2\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,2\,b^2\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Sec}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 9,\ 0\right\}$$

$$-\left(2\left(8a^4Ab-28a^2Ab^3+16Ab^5-3a^5B+15a^3b^2B-8ab^4B-6a^4bC+2a^2b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\right.$$

$$\left.\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}\right)\Big/\left(3a^4(a-b)^2(a+b)d\sqrt{a+b\operatorname{Sec}[c+dx]}\right)+$$

$$\frac{2\left(a^4A+16a^2Ab^2-16Ab^4-9a^3bB+8ab^3B+3a^4C-2a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\operatorname{Sec}[c+dx]}}{3a^4\left(a^2-b^2\right)d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\operatorname{Sin}[c+dx]}{3a\left(a^2-b^2\right)d\sqrt{\operatorname{Sec}[c+dx]}\,(a+b\operatorname{Sec}[c+dx])^{3/2}}+$$

$$\frac{2\left(10a^2Ab^2-6Ab^4-7a^3bB+3ab^3B+4a^4C\right)\operatorname{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)^2d\sqrt{\operatorname{Sec}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(a^4A-13a^2Ab^2+8Ab^4+8a^3bB-4ab^3B-5a^4C+a^2b^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{3a^3\left(a^2-b^2\right)^2d\sqrt{\operatorname{Sec}[c+dx]}}$$

$$\frac{1}{(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])(a+b\operatorname{Sec}[c+dx])^{5/2}}$$

$$(b+a\operatorname{Cos}[c+dx])^3\sqrt{\operatorname{Sec}[c+dx]}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\left(-\frac{1}{3a^4\left(a^2-b^2\right)^2d}4\left(-8a^4Ab+40a^2Ab^3-24Ab^5+3a^5B-24a^3b^2B+13ab^4B+12a^4bC-4a^2b^3C-\right.\right.$$

$$\left.8a^4Ab\operatorname{Cos}[2c]+16a^2Ab^3\operatorname{Cos}[2c]-8Ab^5\operatorname{Cos}[2c]+3a^5B\operatorname{Cos}[2c]-6a^3b^2B\operatorname{Cos}[2c]+3ab^4B\operatorname{Cos}[2c]\right)$$

$$\operatorname{Csc}[2c]+\frac{4A\operatorname{Cos}[dx]\operatorname{Sin}[c]}{3a^3d}+\frac{4A\operatorname{Cos}[c]\operatorname{Sin}[dx]}{3a^3d}-$$

$$\frac{4\operatorname{Sec}[c]\left(Ab^5\operatorname{Sin}[c]-ab^4B\operatorname{Sin}[c]+a^2b^3C\operatorname{Sin}[c]-aAb^4\operatorname{Sin}[dx]+a^2b^3B\operatorname{Sin}[dx]-a^3b^2C\operatorname{Sin}[dx]\right)}{3a^4\left(a^2-b^2\right)d(b+a\operatorname{Cos}[c+dx])^2}+$$

$$\frac{1}{3a^4\left(a^2-b^2\right)^2d(b+a\operatorname{Cos}[c+dx])}$$

$$4\operatorname{Sec}[c]\left(13a^2Ab^4\operatorname{Sin}[c]-9Ab^6\operatorname{Sin}[c]-10a^3b^3B\operatorname{Sin}[c]+6ab^5B\operatorname{Sin}[c]+7a^4b^2C\operatorname{Sin}[c]-3a^2b^4C\operatorname{Sin}[c]-\right.$$

$$\left.\left.12a^3Ab^3\operatorname{Sin}[dx]+8aAb^5\operatorname{Sin}[dx]+9a^4b^2B\operatorname{Sin}[dx]-5a^2b^4B\operatorname{Sin}[dx]-6a^5bC\operatorname{Sin}[dx]+2a^3b^3C\operatorname{Sin}[dx]\right)\right)-$$

$$\left(4aA\operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right.,\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}$$

$$\text{Csc}[c]\ \sqrt{\text{Sec}[c+d\,x]}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\ \text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2+b^2\right)^2 d\ (A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\ \sqrt{1+\text{Cot}[c]^2}\ (a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(28\,A\,b^2\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\ \sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(16\,A\,b^4\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg](b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,a^3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(8\,b\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(8\,b^3\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(3 a^2 \left(-a^2+b^2\right)^2 d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \left(a+b \operatorname{Sec}[c+d x]\right)^{5/2}\right.$$

$$\sqrt{-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}\right) -$$

$$\left(4 a C \operatorname{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right] (b+a \operatorname{Cos}[c+d x])^{5/2} \operatorname{Csc}[c] \sqrt{\operatorname{Sec}[c+d x]}$$

$$\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{-1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(\left(-a^2+b^2\right)^2 d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \left(a+b \operatorname{Sec}[c+d x]\right)^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,b^2\,C\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\frac{1}{3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$16\,a\,A\,b\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{3\,a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$56\,A\,b^3\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{3\,a^3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$32\,A\,b^5\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$2\,a^2\,B\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$10\,b^2\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{3\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,16\,b^4\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$4\,a\,b\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{3\,a\,\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$4\,b^3\,C\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]$$

$$\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\mathrm{Sec}[c]\,\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\,\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2}{\mathrm{Sec}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}},\,x,\,10,\,0\right\}$$

$$\left(2\left(9a^6A+55a^4Ab^2-212a^2Ab^4+128Ab^6-40a^5bB+140a^3b^3B-80ab^5B+15a^6C-75a^4b^2C+40a^2b^4C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}\right)\Big/\left(15a^5(a-b)^2(a+b)\,d\sqrt{a+b\,\mathrm{Sec}[c+dx]}\right)-$$

$$\left(2\left(17a^4Ab+116a^2Ab^3-128Ab^5-5a^5B-80a^3b^2B+80ab^4B+45a^4bC-40a^2b^3C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\sqrt{\mathrm{Sec}[c+dx]}\right)\Big/\left(15a^5\left(a^2-b^2\right)d\sqrt{a+b\,\mathrm{Sec}[c+dx]}\right)+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\mathrm{Sin}[c+dx]}{3a\left(a^2-b^2\right)d\,\mathrm{Sec}[c+dx]^{3/2}(a+b\,\mathrm{Sec}[c+dx])^{3/2}}+\frac{2\left(12a^2Ab^2-8Ab^4-9a^3bB+5ab^3B+6a^4C-2a^2b^2C\right)\mathrm{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)^2d\,\mathrm{Sec}[c+dx]^{3/2}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{2\left(3a^4A-71a^2Ab^2+48Ab^4+50a^3bB-30ab^3B-35a^4C+15a^2b^2C\right)\sqrt{a+b\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15a^3\left(a^2-b^2\right)^2d\,\mathrm{Sec}[c+dx]^{3/2}}-$$

$$\frac{2\left(14a^4Ab-98a^2Ab^3+64Ab^5-5a^5B+65a^3b^2B-40ab^4B-40a^4bC+20a^2b^3C\right)\sqrt{a+b\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15a^4\left(a^2-b^2\right)^2d\sqrt{\mathrm{Sec}[c+dx]}}$$

$$\frac{1}{(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx])(a+b\,\mathrm{Sec}[c+dx])^{5/2}(b+a\,\mathrm{Cos}[c+dx])^3\sqrt{\mathrm{Sec}[c+dx]}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)}$$

$$\Bigg(-\frac{1}{15a^5\left(a^2-b^2\right)^2d}4\left(9a^6A+55a^4Ab^2-287a^2Ab^4+183Ab^6-40a^5bB+200a^3b^3B-120ab^5B+15a^6C-120a^4b^2C+65a^2b^4C+9a^6A\,\mathrm{Cos}[2c]+55a^4Ab^2\,\mathrm{Cos}[2c]-137a^2Ab^4\,\mathrm{Cos}[2c]+73Ab^6\,\mathrm{Cos}[2c]-40a^5bB\,\mathrm{Cos}[2c]+80a^3b^3B\,\mathrm{Cos}[2c]-40ab^5B\,\mathrm{Cos}[2c]+15a^6C\,\mathrm{Cos}[2c]-30a^4b^2C\,\mathrm{Cos}[2c]+15a^2b^4C\,\mathrm{Cos}[2c]\right)\mathrm{Csc}[2c]+$$

$$\frac{4(-14Ab+5aB)\,\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{15a^4d}+\frac{2A\,\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{5a^3d}+\frac{4(-14Ab+5aB)\,\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{15a^4d}+$$

$$\frac{4\,\mathrm{Sec}[c]\left(Ab^6\,\mathrm{Sin}[c]-ab^5B\,\mathrm{Sin}[c]+a^2b^4C\,\mathrm{Sin}[c]-aAb^5\,\mathrm{Sin}[dx]+a^2b^4B\,\mathrm{Sin}[dx]-a^3b^3C\,\mathrm{Sin}[dx]\right)}{3a^5\left(a^2-b^2\right)d(b+a\,\mathrm{Cos}[c+dx])^2}-$$

$$\frac{1}{3a^5\left(a^2-b^2\right)^2d(b+a\,\mathrm{Cos}[c+dx])}4\,\mathrm{Sec}[c]\left(16a^2Ab^5\,\mathrm{Sin}[c]-12Ab^7\,\mathrm{Sin}[c]-13a^3b^4B\,\mathrm{Sin}[c]+9ab^6B\,\mathrm{Sin}[c]+10a^4b^3C\,\mathrm{Sin}[c]-6a^2b^5C\,\mathrm{Sin}[c]-15a^3Ab^4\,\mathrm{Sin}[dx]+11aAb^6\,\mathrm{Sin}[dx]+12a^4b^3B\,\mathrm{Sin}[dx]-8a^2b^5B\,\mathrm{Sin}[dx]-9a^5b^2C\,\mathrm{Sin}[dx]+5a^3b^4C\,\mathrm{Sin}[dx]\right)+\frac{2A\,\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{5a^3d}\Bigg)+$$

$$\left(32\,A\,b\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right](b+a\,\text{Cos}[c+d\,x])^{5/2}$$

$$\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]$$

$$\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(15\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(176\,A\,b^3\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(15\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\ (a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(128\,A\,b^5\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]\ (b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(15\,a^4\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(4\,a\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(28\,b^2\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\Bigg(3\,a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(16\,b^4\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big](b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(3 a^3 \left(-a^2+b^2\right)^2 d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \left(a+b \operatorname{Sec}[c+d x]\right)^{5/2}\right.$$

$$\sqrt{-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}$$

$$\left.\sqrt{1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2}}}\right)+$$

$$\left(8 b C \operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right] \left(b+a \operatorname{Cos}[c+d x]\right)^{5/2} \operatorname{Csc}[c] \sqrt{\operatorname{Sec}[c+d x]}$$

$$\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{-1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(\left(-a^2+b^2\right)^2 d \left(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]\right) \sqrt{1+\operatorname{Cot}[c]^2} \left(a+b \operatorname{Sec}[c+d x]\right)^{5/2}\right.$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(8\,b^3\,C\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(3\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}$$

$$\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{5\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$6\,a^2\,A\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$22\,A\,b^2\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\left(424\,A\,b^4\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\Big(15\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\Big)-$$

$$\Bigg(256\,A\,b^6\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\frac{\left(15\,a^4\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)+}{3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}\,1$$

$$16\,a\,b\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{3\,a\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,56\,b^3\,B\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{3\,a^3\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}}$$

$$32\,b^5\,B\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,\mathrm{Csc}[c]\,\sqrt{\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\,\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$2\,a^2\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$10\,b^2\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}\,\text{Csc}[c]$$

$$\sqrt{\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)-$$

$$\frac{1}{3\,a^2\left(-a^2+b^2\right)^2 d\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$16\,b^4\,C\,(b+a\,\text{Cos}[c+d\,x])^{5/2}$$

$$\text{Csc}[c]\,\sqrt{\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{2\,(7\,a\,A+9\,b\,B+9\,a\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+\frac{2\,(5\,A\,b+5\,a\,B+7\,b\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$
$$\frac{2\,(5\,A\,b+5\,a\,B+7\,b\,C)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{2\,(7\,a\,A+9\,b\,B+9\,a\,C)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{45\,d}+$$
$$\frac{2\,(2\,A\,b+9\,a\,B)\,\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Sin}[c+d\,x]}{63\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{9\,d}$$

$$\Bigg(\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$
$$\Bigg(-\frac{4\,(7\,a\,A+9\,b\,B+9\,a\,C)\,\mathrm{Cot}[c]}{15\,d}+\frac{(23\,A\,b+23\,a\,B+28\,b\,C)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{21\,d}+\frac{(19\,a\,A+18\,b\,B+18\,a\,C)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{45\,d}+$$
$$\frac{(A\,b+a\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{7\,d}+\frac{a\,A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{18\,d}+\frac{(23\,A\,b+23\,a\,B+28\,b\,C)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{21\,d}+$$
$$\frac{(19\,a\,A+18\,b\,B+18\,a\,C)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{45\,d}+\frac{(A\,b+a\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}+\frac{a\,A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{18\,d}\Bigg)\Bigg)\Bigg/$$
$$((b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]))-$$

$$\left(20\,A\,b\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(20\,a\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,b\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(14\,a\,A\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$(15\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\Bigg(6\,b\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\Bigg(6\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,6,\,0\right\}$$

$$\frac{2\,(3\,A\,b+3\,a\,B+5\,b\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\,(5\,a\,A+7\,b\,B+7\,a\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,(5\,a\,A+7\,b\,B+7\,a\,C)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{21\,d}+$$

$$\frac{2\,(2\,A\,b+7\,a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\left(\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(3\,A\,b+3\,a\,B+5\,b\,C)\,\text{Cot}[c]}{5\,d}+\right.\right.$$

$$\frac{(23\,a\,A+28\,b\,B+28\,a\,C)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}+\frac{2\,(A\,b+a\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{a\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+$$

$$\left.\left.\frac{(23\,a\,A+28\,b\,B+28\,a\,C)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}+\frac{2\,(A\,b+a\,B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{a\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\right)\right)\Big/$$

$$((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\left(20\,a\,A\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,b\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\,\frac{1}{2}\right\},\,\left\{\frac{5}{4}\right\},\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(6\,A\,b\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\left(6\,a\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\left(2\,b\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\,(3\,a\,A+5\,b\,B+5\,a\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,(A\,b+a\,B+3\,b\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\,(2\,A\,b+5\,a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\left(\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(3\,a\,A+5\,b\,B+5\,a\,C)\,\text{Cot}[c]}{5\,d}+\frac{4\,(A\,b+a\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{2\,a\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,(A\,b+a\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{2\,a\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)\right)\Big/$$

$$((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\left(4\,A\,b\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,a\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right.$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\Bigg(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Bigg)-$$

$$\Bigg(4\,b\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\Bigg(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Bigg)-$$

$$\Bigg(6\,a\,A\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Bigg(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Bigg)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\Bigg(2\,b\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Bigg(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Bigg)\Bigg/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\left(2\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,5,\,0\right\}$$

$$\frac{2\,(A\,b+a\,B-b\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{d}+\frac{2\,(a\,A+3\,b\,B+3\,a\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-$$

$$\frac{2\,b\,(A-3\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\left(i\,A\,b\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(i\,a\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(i\,b\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,(A\,b+a\,B-2\,b\,C+A\,b\,\text{Cos}[2\,c]+a\,B\,\text{Cos}[2\,c])\,\text{Csc}[2\,c]}{d}+\frac{4\,a\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,a\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,b\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}\right)\right)\Big/\left((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(4\,a\,A\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right.$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(4\,b\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(4\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)$$

Valid but unnecessarily complicated antiderivative:

$$\Big\{\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])\,\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big),\ x,\ 5,\ 0\Big\}$$

$$\frac{2\,(a\,A-b\,B-a\,C)\,\text{EllipticE}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]}{d}+\frac{2\,(3\,A\,b+3\,a\,B+b\,C)\,\text{EllipticF}\Big[\frac{1}{2}\,(c+d\,x),\,2\Big]}{3\,d}+$$

$$\frac{2\,(3\,b\,B+2\,a\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\Bigg(i\,a\,A\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\Big]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\big(1+e^{2\,i\,(c+d\,x)}\big)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\Big[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\Big]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\big(1+e^{2\,i\,(c+d\,x)}\big)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\Bigg)\Big/\big((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\big)-$$

$$\left(i\, b\, B\, \text{Cos}[c+d\,x]^3\, \text{Csc}[c]\left(-\frac{2\, i\, \sqrt{2}\, e^{-i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\, i\, (c+d\, x)}\right]}{d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}-\frac{2\, i\, \sqrt{2}\, e^{i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\, i\, (c+d\, x)}\right]}{3\, d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}\right)(a+b\, \text{Sec}[c+d\, x])\right.$$

$$\left.\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\right)\Big/\left((b+a\, \text{Cos}[c+d\, x])\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\right)-$$

$$\left(i\, a\, C\, \text{Cos}[c+d\, x]^3\, \text{Csc}[c]\left(-\frac{2\, i\, \sqrt{2}\, e^{-i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\, i\, (c+d\, x)}\right]}{d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}-\frac{2\, i\, \sqrt{2}\, e^{i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\, i\, (c+d\, x)}\right]}{3\, d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}\right)(a+b\, \text{Sec}[c+d\, x])\right.$$

$$\left.\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\right)\Big/\left((b+a\, \text{Cos}[c+d\, x])\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\right)+$$

$$\left(\text{Cos}[c+d\, x]^{7/2}\, (a+b\, \text{Sec}[c+d\, x])\, \left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\left(-\frac{4\, (a\, A-2\, b\, B-2\, a\, C+a\, A\, \text{Cos}[2\, c])\, \text{Csc}[2\, c]}{d}+\frac{4\, b\, C\, \text{Sec}[c]\, \text{Sec}[c+d\, x]^2\, \text{Sin}[d\, x]}{3\, d}+\frac{4\, \text{Sec}[c]\, \text{Sec}[c+d\, x]\, (b\, C\, \text{Sin}[c]+3\, b\, B\, \text{Sin}[d\, x]+3\, a\, C\, \text{Sin}[d\, x])}{3\, d}\right)\right)\Big/$$

$$\left((b+a\, \text{Cos}[c+d\, x])\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\right)-$$

$$\left(4\, A\, b\, \text{Cos}[c+d\, x]^3\, \text{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\, \text{Sec}[c+d\, x])\right.$$

$$\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\text{Sec}[d\, x-\text{ArcTan}[\text{Cot}[c]]]\, \sqrt{1-\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\, \text{Sin}[c]\, \text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\, \sqrt{1+\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\, (b+a\, \text{Cos}[c+d\, x])\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\, \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\, a\, B\, \text{Cos}[c+d\, x]^3\, \text{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\, \text{Sec}[c+d\, x])\right.$$

$$\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\text{Sec}[d\, x-\text{ArcTan}[\text{Cot}[c]]]\, \sqrt{1-\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\, \text{Sin}[c]\, \text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\, \sqrt{1+\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,b\,C\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\sqrt{\mathrm{Cos}[c+d\,x]}},\,x,\,6,\,0\right\}$$
$$-\frac{2\,(5\,A\,b+5\,a\,B+3\,b\,C)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+\frac{2\,(3\,a\,A+b\,B+a\,C)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+$$
$$\frac{2\,(5\,b\,B+2\,a\,C)\,\mathrm{Sin}[c+d\,x]}{15\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{2\,(5\,A\,b+5\,a\,B+3\,b\,C)\,\mathrm{Sin}[c+d\,x]}{5\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,C\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{5\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}$$
$$\left(\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(5\,A\,b+5\,a\,B+3\,b\,C)\,\mathrm{Csc}[2\,c]}{5\,d}+\right.\right.$$
$$\frac{4\,b\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,\mathrm{Sin}[d\,x]}{5\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(3\,b\,C\,\mathrm{Sin}[c]+5\,b\,B\,\mathrm{Sin}[d\,x]+5\,a\,C\,\mathrm{Sin}[d\,x])}{15\,d}+$$
$$\left.\left.\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(5\,b\,B\,\mathrm{Sin}[c]+5\,a\,C\,\mathrm{Sin}[c]+15\,A\,b\,\mathrm{Sin}[d\,x]+15\,a\,B\,\mathrm{Sin}[d\,x]+9\,b\,C\,\mathrm{Sin}[d\,x])}{15\,d}\right)\right)\Big/$$
$$((b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]))-$$
$$\left(4\,a\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,b\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)+$$

$$\Bigg(2\,A\,b\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))+$$

$$\Bigg(2\,a\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))+$$

$$\left(6\,b\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,7,\,0\right\}$$

$$-\frac{2\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\,(7\,A\,b+7\,a\,B+5\,b\,C)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+\frac{2\,(7\,b\,B+2\,a\,C)\,\text{Sin}[c+d\,x]}{35\,d\,\text{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{2\,(7\,A\,b+7\,a\,B+5\,b\,C)\,\text{Sin}[c+d\,x]}{21\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,(5\,a\,A+3\,b\,B+3\,a\,C)\,\mathrm{Csc}[2\,c]}{5\,d}+\right.$$

$$\frac{4\,b\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\mathrm{Sin}[d\,x]}{7\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3\,(5\,b\,C\,\mathrm{Sin}[c]+7\,b\,B\,\mathrm{Sin}[d\,x]+7\,a\,C\,\mathrm{Sin}[d\,x])}{35\,d}+$$

$$\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,(35\,A\,b\,\mathrm{Sin}[c]+35\,a\,B\,\mathrm{Sin}[c]+25\,b\,C\,\mathrm{Sin}[c]+105\,a\,A\,\mathrm{Sin}[d\,x]+63\,b\,B\,\mathrm{Sin}[d\,x]+63\,a\,C\,\mathrm{Sin}[d\,x])}{105\,d}+$$

$$\left.\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,(21\,b\,B\,\mathrm{Sin}[c]+21\,a\,C\,\mathrm{Sin}[c]+35\,A\,b\,\mathrm{Sin}[d\,x]+35\,a\,B\,\mathrm{Sin}[d\,x]+25\,b\,C\,\mathrm{Sin}[d\,x])}{105\,d}\right)-$$

$$\left(4\,A\,b\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,a\,B\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,b\,C\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\left(2\,a\,A\,\mathrm{Cos}[c+d\,x]^3\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))+$$

$$\left(6\,b\,B\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))+$$

$$\left(6\,a\,C\,\text{Cos}[c+d\,x]^3\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$(5\,d\,(b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 8,\ 0\right\}$$

$$\frac{2\,\left(14\,a\,A\,b+7\,a^2\,B+9\,b^2\,B+18\,a\,b\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{15\,d}+$$

$$\frac{2\,\left(45\,a^2\,A+55\,A\,b^2+110\,a\,b\,B+55\,a^2\,C+77\,b^2\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{231\,d}+$$

$$\frac{2\,\left(45\,a^2\,A+55\,A\,b^2+110\,a\,b\,B+55\,a^2\,C+77\,b^2\,C\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{2\,\left(14\,a\,A\,b+7\,a^2\,B+9\,b^2\,B+18\,a\,b\,C\right)\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{45\,d}+$$

$$\frac{2\,\left(81\,a^2\,A+8\,A\,b^2+121\,a\,b\,B+99\,a^2\,C\right)\,\text{Cos}[c+d\,x]^{5/2}\,\text{Sin}[c+d\,x]}{693\,d}+$$

$$\frac{2\,(4\,A\,b+11\,a\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,\left(14\,a\,A\,b+7\,a^2\,B+9\,b^2\,B+18\,a\,b\,C\right)\,\text{Cot}[c]}{15\,d}+\frac{\left(435\,a^2\,A+506\,A\,b^2+1012\,a\,b\,B+506\,a^2\,C+616\,b^2\,C\right)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{462\,d}+\right.$$

$$\frac{\left(38\,a\,A\,b+19\,a^2\,B+18\,b^2\,B+36\,a\,b\,C\right)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{45\,d}+$$

$$\frac{\left(57\,a^2\,A+44\,A\,b^2+88\,a\,b\,B+44\,a^2\,C\right)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{308\,d}+\frac{a\,(2\,A\,b+a\,B)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{18\,d}+$$

$$\frac{a^2\,A\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{44\,d}+\frac{\left(435\,a^2\,A+506\,A\,b^2+1012\,a\,b\,B+506\,a^2\,C+616\,b^2\,C\right)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{462\,d}+$$

$$\frac{\left(38\,a\,A\,b+19\,a^2\,B+18\,b^2\,B+36\,a\,b\,C\right)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{45\,d}+\frac{\left(57\,a^2\,A+44\,A\,b^2+88\,a\,b\,B+44\,a^2\,C\right)\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{308\,d}+$$

$$\frac{a\,(2\,A\,b+a\,B)\,\text{Cos}[4\,c]\,\text{Sin}[4\,d\,x]}{18\,d}+\frac{a^2\,A\,\text{Cos}[5\,c]\,\text{Sin}[5\,d\,x]}{44\,d}\Bigg)-$$

$$\Bigg(60\,a^2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(77\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(20\,A\,b^2\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(40\,a\,b\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(20\,a^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,b^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(28\,a\,A\,b\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(14\,a^2\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Bigg/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\ \sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6 b^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(5 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)-$$

$$\left(12 a b C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(5 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^{9/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{2 \left(7 a^2 A+9 A b^2+18 a b B+9 a^2 C+15 b^2 C\right) \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{15 d}+$$

$$\frac{2 \left(10 a A b+5 a^2 B+7 b^2 B+14 a b C\right) \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{21 d}+$$

$$\frac{2 \left(10 a A b+5 a^2 B+7 b^2 B+14 a b C\right) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{Sin}[c+d x]}{21 d}+$$

$$\frac{2 \left(49 a^2 A+8 A b^2+81 a b B+63 a^2 C\right) \operatorname{Cos}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{315 d}+$$

$$\frac{2 (4 A b+9 a B) \operatorname{Cos}[c+d x]^{5/2} (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{63 d}+\frac{2 A \operatorname{Cos}[c+d x]^{7/2} (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{9 d}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,\left(7\,a^2\,A+9\,A\,b^2+18\,a\,b\,B+9\,a^2\,C+15\,b^2\,C\right)\,\mathrm{Cot}[c]}{15\,d}+\frac{\left(46\,a\,A\,b+23\,a^2\,B+28\,b^2\,B+56\,a\,b\,C\right)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{21\,d}+\right.$$

$$\frac{\left(19\,a^2\,A+18\,A\,b^2+36\,a\,b\,B+18\,a^2\,C\right)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{45\,d}+\frac{a\,(2\,A\,b+a\,B)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{7\,d}+$$

$$\frac{a^2\,A\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{18\,d}+\frac{\left(46\,a\,A\,b+23\,a^2\,B+28\,b^2\,B+56\,a\,b\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{21\,d}+$$

$$\left.\frac{\left(19\,a^2\,A+18\,A\,b^2+36\,a\,b\,B+18\,a^2\,C\right)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{45\,d}+\frac{a\,(2\,A\,b+a\,B)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}+\frac{a^2\,A\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{18\,d}\right)-$$

$$\left(40\,a\,A\,b\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,a^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,b^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(8\,a\,b\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\Bigg(14\,a^2\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(6\,A\,b^2\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\mathrm{Tan}[c]^2}\Bigg)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(12\,a\,b\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,a^2\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2 b^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^{7/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$\frac{2 \left(6 a A b+3 a^2 B+5 b^2 B+10 a b C\right) \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{5 d}+$$

$$\frac{2 \left(5 a^2 A+7 A b^2+14 a b B+7 a^2 C+21 b^2 C\right) \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{21 d}+$$

$$\frac{2 \left(25 a^2 A+8 A b^2+49 a b B+35 a^2 C\right) \sqrt{\operatorname{Cos}[c+d x]} \operatorname{Sin}[c+d x]}{105 d}+$$

$$\frac{2 (4 A b+7 a B) \operatorname{Cos}[c+d x]^{3/2} (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{35 d}+\frac{2 A \operatorname{Cos}[c+d x]^{5/2} (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{7 d}$$

$$\left(\operatorname{Cos}[c+d x]^{9/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(-\frac{4 \left(6 a A b+3 a^2 B+5 b^2 B+10 a b C\right) \operatorname{Cot}[c]}{5 d}+\frac{\left(23 a^2 A+28 A b^2+56 a b B+28 a^2 C\right) \operatorname{Cos}[d x] \operatorname{Sin}[c]}{21 d}+\right.$$

$$\frac{2 a (2 A b+a B) \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{5 d}+\frac{a^2 A \operatorname{Cos}[3 d x] \operatorname{Sin}[3 c]}{7 d}+\frac{\left(23 a^2 A+28 A b^2+56 a b B+28 a^2 C\right) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{21 d}+$$

$$\left.\left.\frac{2 a (2 A b+a B) \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{5 d}+\frac{a^2 A \operatorname{Cos}[3 c] \operatorname{Sin}[3 d x]}{7 d}\right)\right) \Big/$$

$$\left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)-$$

$$\left(20\,a^2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^2\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,A\,b^2\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^2\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(8\,a\,b\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^2\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,a^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^2\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,b^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^2\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(12\,a\,A\,b\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,a^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2 b^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)-$$

$$\left(4 a b C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^{5/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 6, 0\right\}$$

$$\frac{2 \left(3 a^2 A+5 A b^2+10 a b B+5 a^2 C-5 b^2 C\right) \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{5 d}+$$

$$\frac{2 \left(2 a A b+a^2 B+3 b^2 B+6 a b C\right) \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{3 d}-\frac{2 b (7 A b+5 a B-15 b C) \operatorname{Sin}[c+d x]}{15 d \sqrt{\operatorname{Cos}[c+d x]}}+$$

$$\frac{2 (4 A b+5 a B) \sqrt{\operatorname{Cos}[c+d x]} (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{15 d}+\frac{2 A \operatorname{Cos}[c+d x]^{3/2} (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{5 d}$$

$$\left(3 i a^2 A \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(i A b^2 \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(2 i a b B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(i a^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(i\, b^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(\operatorname{Cos}[c+d x]^{9/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{4 \left(3 a^2 A+5 A b^2+10 a b B+5 a^2 C-10 b^2 C+3 a^2 A \operatorname{Cos}[2 c]+5 A b^2 \operatorname{Cos}[2 c]+10 a b B \operatorname{Cos}[2 c]+5 a^2 C \operatorname{Cos}[2 c]\right) \operatorname{Csc}[2 c]}{5 d} + \frac{4 a (2 A b+a B) \operatorname{Cos}[d x] \operatorname{Sin}[c]}{3 d} + \frac{2 a^2 A \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{5 d} + \frac{4 a (2 A b+a B) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{3 d} + \frac{4 b^2 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x] \operatorname{Sin}[d x]}{d} + \frac{2 a^2 A \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{5 d}\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(8 a A b \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 b^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right.$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(8\,a\,b\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{2\,\left(2\,a\,A\,b+a^2\,B-b^2\,B-2\,a\,b\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{d}+$$

$$\frac{2\,\left(a^2\,A+3\,A\,b^2+6\,a\,b\,B+3\,a^2\,C+b^2\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,d}-\frac{2\,b\,(a\,A-3\,b\,B-5\,a\,C)\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{2\,b\,(A-C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{3\,d}$$

$$\Bigg(2\,i\,a\,A\,b\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Bigg/\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(i\,a^2\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(i\,b^2\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(2\,i\,a\,b\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{4\,\left(2\,a\,A\,b+a^2\,B-2\,b^2\,B-4\,a\,b\,C+2\,a\,A\,b\,\text{Cos}[2\,c]+a^2\,B\,\text{Cos}[2\,c]\right)\,\text{Csc}[2\,c]}{d}+$$

$$\frac{4\,a^2\,A\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+\frac{4\,a^2\,A\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,b^2\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\text{Sin}[d\,x]}{3\,d}+$$

$$\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(b^2\,C\,\text{Sin}[c]+3\,b^2\,B\,\text{Sin}[d\,x]+6\,a\,b\,C\,\text{Sin}[d\,x]\right)}{3\,d}\Bigg)\Bigg)\Big/$$

$$\left((b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(4\,a^2\,A\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,A\,b^2\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(8\,a\,b\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,a^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,b^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 6,\ 0\right\}$$

$$\frac{2\left(5\,a^2\,A-5\,A\,b^2-10\,a\,b\,B-5\,a^2\,C-3\,b^2\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\left(6\,a\,A\,b+3\,a^2\,B+b^2\,B+2\,a\,b\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}+\frac{2\left(15\,A\,b^2+25\,a\,b\,B+8\,a^2\,C+9\,b^2\,C\right)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,(5\,b\,B+4\,a\,C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\left(i a^2 A \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(i A b^2 \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(2 i a b B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(i a^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i b^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(\operatorname{Cos}[c+d x]^{9/2} (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(-\frac{4 \left(5 a^2 A-10 A b^2-20 a b B-10 a^2 C-6 b^2 C+5 a^2 A \operatorname{Cos}[2 c]\right) \operatorname{Csc}[2 c]}{5 d} + \frac{4 b^2 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3 \operatorname{Sin}[d x]}{5 d} + \frac{4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 \left(3 b^2 C \operatorname{Sin}[c]+5 b^2 B \operatorname{Sin}[d x]+10 a b C \operatorname{Sin}[d x]\right)}{15 d} + \frac{1}{15 d} 4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x] \left(5 b^2 B \operatorname{Sin}[c]+10 a b C \operatorname{Sin}[c]+15 A b^2 \operatorname{Sin}[d x]+30 a b B \operatorname{Sin}[d x]+15 a^2 C \operatorname{Sin}[d x]+9 b^2 C \operatorname{Sin}[d x]\right)\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(8 a A b \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 b^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right.$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(8\,a\,b\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^2$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,\left(10\,a\,A\,b+5\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{5\,d}+$$

$$\frac{2\,\left(21\,a^2\,A+7\,A\,b^2+14\,a\,b\,B+7\,a^2\,C+5\,b^2\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{21\,d}+$$

$$\frac{2\,\left(35\,A\,b^2+49\,a\,b\,B+8\,a^2\,C+25\,b^2\,C\right)\,\text{Sin}[c+d\,x]}{105\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,\left(10\,a\,A\,b+5\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\,\text{Sin}[c+d\,x]}{5\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,(7\,b\,B+4\,a\,C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{35\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{7\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg(\frac{8\,\left(10\,a\,A\,b+5\,a^2\,B+3\,b^2\,B+6\,a\,b\,C\right)\,\text{Csc}[2\,c]}{5\,d}+$$

$$\frac{4\,b^2\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{7\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\left(5\,b^2\,C\,\text{Sin}[c]+7\,b^2\,B\,\text{Sin}[d\,x]+14\,a\,b\,C\,\text{Sin}[d\,x]\right)}{35\,d}+$$

$$\frac{1}{105\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(35\,A\,b^2\,\text{Sin}[c]+70\,a\,b\,B\,\text{Sin}[c]+35\,a^2\,C\,\text{Sin}[c]+25\,b^2\,C\,\text{Sin}[c]+\right.$$

$$\left.210\,a\,A\,b\,\text{Sin}[d\,x]+105\,a^2\,B\,\text{Sin}[d\,x]+63\,b^2\,B\,\text{Sin}[d\,x]+126\,a\,b\,C\,\text{Sin}[d\,x]\right)+\frac{1}{105\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2$$

$$\left.\left(21\,b^2\,B\,\text{Sin}[c]+42\,a\,b\,C\,\text{Sin}[c]+35\,A\,b^2\,\text{Sin}[d\,x]+70\,a\,b\,B\,\text{Sin}[d\,x]+35\,a^2\,C\,\text{Sin}[d\,x]+25\,b^2\,C\,\text{Sin}[d\,x]\right)\right)-$$

$$\left(4 a^2 A \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 A b^2 \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(8 a b B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(20 b^2 C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\left(4\,a\,A\,b\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(2\,a^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(6 b^2 B \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(5 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(12 a b C \operatorname{Cos}[c+d x]^4 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right) \Big/$$

$$\left(5 d (b+a \operatorname{Cos}[c+d x])^2 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \operatorname{Sec}[c+d x])^2 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\operatorname{Cos}[c+d x]^{3/2}}, x, 8, 0\right\}$$

$$-\frac{2 \left(15 a^2 A+9 A b^2+18 a b B+9 a^2 C+7 b^2 C\right) \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), 2\right]}{15 d}+$$

$$\frac{2 \left(14 a A b+7 a^2 B+5 b^2 B+10 a b C\right) \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), 2\right]}{21 d}+\frac{2 \left(63 A b^2+81 a b B+8 a^2 C+49 b^2 C\right) \operatorname{Sin}[c+d x]}{315 d \operatorname{Cos}[c+d x]^{5/2}}+$$

$$\frac{2 \left(14 a A b+7 a^2 B+5 b^2 B+10 a b C\right) \operatorname{Sin}[c+d x]}{21 d \operatorname{Cos}[c+d x]^{3/2}}+\frac{2 \left(15 a^2 A+9 A b^2+18 a b B+9 a^2 C+7 b^2 C\right) \operatorname{Sin}[c+d x]}{15 d \sqrt{\operatorname{Cos}[c+d x]}}+$$

$$\frac{2 (9 b B+4 a C) (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{63 d \operatorname{Cos}[c+d x]^{5/2}}+\frac{2 C (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{9 d \operatorname{Cos}[c+d x]^{5/2}}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}$$

$$\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(\frac{8\,\left(15\,a^2\,A+9\,A\,b^2+18\,a\,b\,B+9\,a^2\,C+7\,b^2\,C\right)\,\mathrm{Csc}[2\,c]}{15\,d}+\right.$$

$$\frac{4\,b^2\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^5\,\mathrm{Sin}[d\,x]}{9\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^4\,\left(7\,b^2\,C\,\mathrm{Sin}[c]+9\,b^2\,B\,\mathrm{Sin}[d\,x]+18\,a\,b\,C\,\mathrm{Sin}[d\,x]\right)}{63\,d}+$$

$$\frac{1}{315\,d}4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\left(63\,A\,b^2\,\mathrm{Sin}[c]+126\,a\,b\,B\,\mathrm{Sin}[c]+63\,a^2\,C\,\mathrm{Sin}[c]+49\,b^2\,C\,\mathrm{Sin}[c]+\right.$$

$$\left.210\,a\,A\,b\,\mathrm{Sin}[d\,x]+105\,a^2\,B\,\mathrm{Sin}[d\,x]+75\,b^2\,B\,\mathrm{Sin}[d\,x]+150\,a\,b\,C\,\mathrm{Sin}[d\,x]\right)+\frac{1}{315\,d}4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^3$$

$$\left(45\,b^2\,B\,\mathrm{Sin}[c]+90\,a\,b\,C\,\mathrm{Sin}[c]+63\,A\,b^2\,\mathrm{Sin}[d\,x]+126\,a\,b\,B\,\mathrm{Sin}[d\,x]+63\,a^2\,C\,\mathrm{Sin}[d\,x]+49\,b^2\,C\,\mathrm{Sin}[d\,x]\right)+$$

$$\frac{1}{105\,d}\,4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\,\left(70\,a\,A\,b\,\mathrm{Sin}[c]+35\,a^2\,B\,\mathrm{Sin}[c]+25\,b^2\,B\,\mathrm{Sin}[c]+50\,a\,b\,C\,\mathrm{Sin}[c]+\right.$$

$$\left.\left.105\,a^2\,A\,\mathrm{Sin}[d\,x]+63\,A\,b^2\,\mathrm{Sin}[d\,x]+126\,a\,b\,B\,\mathrm{Sin}[d\,x]+63\,a^2\,C\,\mathrm{Sin}[d\,x]+49\,b^2\,C\,\mathrm{Sin}[d\,x]\right)\right)-$$

$$\left(8\,a\,A\,b\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,a^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,b^2\,B\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(40\,a\,b\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\left(2\,a^2\,A\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(6\,A\,b^2\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(12\,a\,b\,B\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(6\,a^2\,C\,\text{Cos}[c+d\,x]^4\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(14\,b^2\,C\,\mathrm{Cos}[c+d\,x]^4\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{11/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),x,8,0\right\}$$

$$\frac{2\,\left(21\,a^2\,A\,b+9\,A\,b^3+7\,a^3\,B+27\,a\,b^2\,B+27\,a^2\,b\,C+15\,b^3\,C\right)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),2\right]}{15\,d}+$$

$$\frac{2\,\left(45\,a^3\,A+165\,a\,A\,b^2+165\,a^2\,b\,B+77\,b^3\,B+55\,a^3\,C+231\,a\,b^2\,C\right)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),2\right]}{231\,d}+$$

$$\frac{2\,\left(45\,a^3\,A+165\,a\,A\,b^2+165\,a^2\,b\,B+77\,b^3\,B+55\,a^3\,C+231\,a\,b^2\,C\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{2\,\left(1212\,a^2\,A\,b+48\,A\,b^3+539\,a^3\,B+979\,a\,b^2\,B+1584\,a^2\,b\,C\right)\,\mathrm{Cos}[c+d\,x]^{3/2}\,\mathrm{Sin}[c+d\,x]}{3465\,d}+$$

$$\frac{2\,\left(81\,a^2\,A+24\,A\,b^2+143\,a\,b\,B+99\,a^2\,C\right)\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{693\,d}+$$

$$\frac{2\,(6\,A\,b+11\,a\,B)\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,\mathrm{Cos}[c+d\,x]^{11/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\left(-\frac{4\left(21\,a^2\,A\,b+9\,A\,b^3+7\,a^3\,B+27\,a\,b^2\,B+27\,a^2\,b\,C+15\,b^3\,C\right)\mathrm{Cot}[c]}{15\,d}+\right.$$

$$\frac{\left(435\,a^3\,A+1518\,a\,A\,b^2+1518\,a^2\,b\,B+616\,b^3\,B+506\,a^3\,C+1848\,a\,b^2\,C\right)\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{462\,d}+$$

$$\frac{\left(57\,a^2\,A\,b+18\,A\,b^3+19\,a^3\,B+54\,a\,b^2\,B+54\,a^2\,b\,C\right)\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{45\,d}+$$

$$\frac{a\left(57\,a^2\,A+132\,A\,b^2+132\,a\,b\,B+44\,a^2\,C\right)\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{308\,d}+\frac{a^2\,(3\,A\,b+a\,B)\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{18\,d}+$$

$$\frac{a^3\,A\,\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{44\,d}+\frac{\left(435\,a^3\,A+1518\,a\,A\,b^2+1518\,a^2\,b\,B+616\,b^3\,B+506\,a^3\,C+1848\,a\,b^2\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{462\,d}+$$

$$\frac{\left(57\,a^2\,A\,b+18\,A\,b^3+19\,a^3\,B+54\,a\,b^2\,B+54\,a^2\,b\,C\right)\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{45\,d}+$$

$$\frac{a\left(57\,a^2\,A+132\,A\,b^2+132\,a\,b\,B+44\,a^2\,C\right)\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{308\,d}+$$

$$\left.\frac{a^2\,(3\,A\,b+a\,B)\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{18\,d}+\frac{a^3\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{44\,d}\right)-$$

$$\left(60\,a^3\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,a\,A\,b^2\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,a^2\,b\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(4\,b^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(3\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(20\,a^3\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(21\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(4\,a\,b^2\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(14\,a^2\,A\,b\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)$$

$$\Big(\Big(\text{HypergeometricPFQ}\Big[\Big\{-\frac{1}{2},-\frac{1}{4}\Big\},\Big\{\frac{3}{4}\Big\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\Big)\Big/$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,A\,b^3\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(14\,a^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(18\,a\,b^2\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(18\,a^2\,b\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2\,b^3\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{2\,\left(7\,a^3\,A+27\,a\,A\,b^2+27\,a^2\,b\,B+15\,b^3\,B+9\,a^3\,C+45\,a\,b^2\,C\right)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+$$

$$\frac{2\,\left(15\,a^2\,A\,b+7\,A\,b^3+5\,a^3\,B+21\,a\,b^2\,B+21\,a^2\,b\,C+21\,b^3\,C\right)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{2\,\left(176\,a^2\,A\,b+16\,A\,b^3+75\,a^3\,B+171\,a\,b^2\,B+252\,a^2\,b\,C\right)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\,\left(49\,a^2\,A+24\,A\,b^2+99\,a\,b\,B+63\,a^2\,C\right)\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{315\,d}+$$

$$\frac{2\,(2\,A\,b+3\,a\,B)\,\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{21\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])}\,\mathrm{Cos}[c+d\,x]^{11/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^3$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(-\frac{4\,\left(7\,a^3\,A+27\,a\,A\,b^2+27\,a^2\,b\,B+15\,b^3\,B+9\,a^3\,C+45\,a\,b^2\,C\right)\,\mathrm{Cot}[c]}{15\,d}+\right.$$

$$\frac{\left(69 a^2 A b+28 A b^3+23 a^3 B+84 a b^2 B+84 a^2 b C\right) \text{Cos}[d x] \text{Sin}[c]}{21 d}+$$
$$\frac{a \left(19 a^2 A+54 A b^2+54 a b B+18 a^2 C\right) \text{Cos}[2 d x] \text{Sin}[2 c]}{45 d}+\frac{a^2 (3 A b+a B) \text{Cos}[3 d x] \text{Sin}[3 c]}{7 d}+$$
$$\frac{a^3 A \text{Cos}[4 d x] \text{Sin}[4 c]}{18 d}+\frac{\left(69 a^2 A b+28 A b^3+23 a^3 B+84 a b^2 B+84 a^2 b C\right) \text{Cos}[c] \text{Sin}[d x]}{21 d}+$$
$$\frac{a \left(19 a^2 A+54 A b^2+54 a b B+18 a^2 C\right) \text{Cos}[2 c] \text{Sin}[2 d x]}{45 d}+\frac{a^2 (3 A b+a B) \text{Cos}[3 c] \text{Sin}[3 d x]}{7 d}+\frac{a^3 A \text{Cos}[4 c] \text{Sin}[4 d x]}{18 d}\Bigg)-$$

$$\Bigg(20 a^2 A b \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] (a+b \text{Sec}[c+d x])^3$$
$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$
$$\left(7 d (b+a \text{Cos}[c+d x])^3 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4 A b^3 \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] (a+b \text{Sec}[c+d x])^3$$
$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$
$$\left(3 d (b+a \text{Cos}[c+d x])^3 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(20 a^3 B \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] (a+b \text{Sec}[c+d x])^3$$
$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$
$$\left(21 d (b+a \text{Cos}[c+d x])^3 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4 a b^2 B \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right] (a+b \text{Sec}[c+d x])^3$$
$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\sqrt{-\sqrt{1+\text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,a^2\,b\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,b^3\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(14\,a^3\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(18\,a\,A\,b^2\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(18\,a^2\,b\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2\,b^3\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,a^3\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,a\,b^2\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,7,\,0\right\}$$

$$\frac{2\left(9\,a^2\,A\,b+5\,A\,b^3+3\,a^3\,B+15\,a\,b^2\,B+15\,a^2\,b\,C-5\,b^3\,C\right)\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\left(5\,a^3\,A+21\,a\,A\,b^2+21\,a^2\,b\,B+21\,b^3\,B+7\,a^3\,C+63\,a\,b^2\,C\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}-$$

$$\frac{2\,b\left(25\,a^2\,A+57\,A\,b^2+84\,a\,b\,B+35\,a^2\,C-105\,b^2\,C\right)\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^2\,A+24\,A\,b^2+63\,a\,b\,B+35\,a^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,(6\,A\,b+7\,a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\left(9\,i\,a^2\,A\,b\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\,\frac{3}{4},\,\frac{7}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\text{Sec}[c+d\,x])^3\right.$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(i\,A\,b^3\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\,\frac{1}{2},\,\frac{3}{4},\,-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(3\,i\,a^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left(5\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(3\,i\,a\,b^2\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(3\,i\,a^2\,b\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(i\,b^3\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\;\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\text{Cos}[c+d\,x]^{11/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}$$

$$\Bigg(-\frac{1}{5\,d}4\,\Big(9\,a^2\,A\,b+5\,A\,b^3+3\,a^3\,B+15\,a\,b^2\,B+15\,a^2\,b\,C-10\,b^3\,C+9\,a^2\,A\,b\,\text{Cos}[2\,c]+5\,A\,b^3\,\text{Cos}[2\,c]+3\,a^3\,B\,\text{Cos}[2\,c]+$$

$$15\,a\,b^2\,B\,\text{Cos}[2\,c]+15\,a^2\,b\,C\,\text{Cos}[2\,c]\Big)\,\text{Csc}[2\,c]+\frac{a\,\left(23\,a^2\,A+84\,A\,b^2+84\,a\,b\,B+28\,a^2\,C\right)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{21\,d}+$$

$$\frac{2\,a^2\,(3\,A\,b+a\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{a^3\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+\frac{a\,\left(23\,a^2\,A+84\,A\,b^2+84\,a\,b\,B+28\,a^2\,C\right)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{21\,d}+$$

$$\frac{4\,b^3\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\text{Sin}[d\,x]}{d}+\frac{2\,a^2\,(3\,A\,b+a\,B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}+\frac{a^3\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\Bigg)-$$

$$\Bigg(20\,a^3\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,a\,A\,b^2\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,a^2\,b\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,b^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,a^3\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(12\,a\,b^2\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(3\,a^3\,A+15\,a\,A\,b^2+15\,a^2\,b\,B-5\,b^3\,B+5\,a^3\,C-15\,a\,b^2\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\left(3\,a^2\,A\,b+3\,A\,b^3+a^3\,B+9\,a\,b^2\,B+9\,a^2\,b\,C+b^3\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,d}-$$

$$\frac{2\,b\left(12\,a\,A\,b+5\,a^2\,B-15\,b^2\,B-40\,a\,b\,C\right)\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}-\frac{2\,b\,(9\,A\,b+5\,a\,B-5\,b\,C)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{15\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,(6\,A\,b+5\,a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\left(3 i a^3 A \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(3 i a A b^2 \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(3 i a^2 b B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(i b^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(i\, a^3\, C\, \text{Cos}[c+d\,x]^5\, \text{Csc}[c]\left(-\frac{2\, i\, \sqrt{2}\, e^{-i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\, i\, (c+d\, x)}\right]}{d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}-\frac{2\, i\, \sqrt{2}\, e^{i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\, i\, (c+d\, x)}\right]}{3\, d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}\right)(a+b\, \text{Sec}[c+d\, x])^3\right.$$

$$\left.\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\right)\Big/\left((b+a\, \text{Cos}[c+d\, x])^3\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\right)-$$

$$\left(3\, i\, a\, b^2\, C\, \text{Cos}[c+d\, x]^5\, \text{Csc}[c]\left(-\frac{2\, i\, \sqrt{2}\, e^{-i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\, i\, (c+d\, x)}\right]}{d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}-\frac{2\, i\, \sqrt{2}\, e^{i\, d\, x}\, \sqrt{1+e^{2\, i\, (c+d\, x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\, i\, (c+d\, x)}\right]}{3\, d\, \sqrt{e^{-i\, (c+d\, x)}\, \left(1+e^{2\, i\, (c+d\, x)}\right)}}\right)(a+b\, \text{Sec}[c+d\, x])^3\right.$$

$$\left.\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\right)\Big/\left((b+a\, \text{Cos}[c+d\, x])^3\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\right)+$$

$$\frac{1}{(b+a\, \text{Cos}[c+d\, x])^3\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])}$$
$$\text{Cos}[c+d\, x]^{11/2}\, (a+b\, \text{Sec}[c+d\, x])^3\, \left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)$$
$$\left(-\frac{1}{5\, d}4\, \left(3\, a^3\, A+15\, a\, A\, b^2+15\, a^2\, b\, B-10\, b^3\, B+5\, a^3\, C-30\, a\, b^2\, C+3\, a^3\, A\, \text{Cos}[2\, c]+15\, a\, A\, b^2\, \text{Cos}[2\, c]+\right.\right.$$
$$\left.15\, a^2\, b\, B\, \text{Cos}[2\, c]+5\, a^3\, C\, \text{Cos}[2\, c]\right)\, \text{Csc}[2\, c]+\frac{4\, a^2\, (3\, A\, b+a\, B)\, \text{Cos}[d\, x]\, \text{Sin}[c]}{3\, d}+$$
$$\frac{2\, a^3\, A\, \text{Cos}[2\, d\, x]\, \text{Sin}[2\, c]}{5\, d}+\frac{4\, a^2\, (3\, A\, b+a\, B)\, \text{Cos}[c]\, \text{Sin}[d\, x]}{3\, d}+\frac{4\, b^3\, C\, \text{Sec}[c]\, \text{Sec}[c+d\, x]^2\, \text{Sin}[d\, x]}{3\, d}+$$
$$\left.\frac{4\, \text{Sec}[c]\, \text{Sec}[c+d\, x]\, \left(b^3\, C\, \text{Sin}[c]+3\, b^3\, B\, \text{Sin}[d\, x]+9\, a\, b^2\, C\, \text{Sin}[d\, x]\right)}{3\, d}+\frac{2\, a^3\, A\, \text{Cos}[2\, c]\, \text{Sin}[2\, d\, x]}{5\, d}\right)-$$

$$\left(4\, a^2\, A\, b\, \text{Cos}[c+d\, x]^5\, \text{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\, (a+b\, \text{Sec}[c+d\, x])^3\right.$$
$$\left(A+B\, \text{Sec}[c+d\, x]+C\, \text{Sec}[c+d\, x]^2\right)\, \text{Sec}[d\, x-\text{ArcTan}[\text{Cot}[c]]]\, \sqrt{1-\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\, \text{Sin}[c]\, \text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\, \sqrt{1+\text{Sin}[d\, x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\, (b+a\, \text{Cos}[c+d\, x])^3\, (A+2\, C+2\, B\, \text{Cos}[c+d\, x]+A\, \text{Cos}[2\, c+2\, d\, x])\, \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4 A b^3 \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(12 a b^2 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(12 a^2 b C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 b^3 C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^{3/2} (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 7, 0\right\}$$

$$\frac{2\left(15a^2Ab-5Ab^3+5a^3B-15ab^2B-15a^2bC-3b^3C\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{5d}+$$

$$\frac{2\left(a^3A+9aAb^2+9a^2bB+b^3B+3a^3C+3ab^2C\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3d}-$$

$$\frac{2b\left(5a^2A-15Ab^2-40abB-33a^2C-9b^2C\right)\text{Sin}[c+dx]}{15d\sqrt{\text{Cos}[c+dx]}}-\frac{2b(5aA-5bB-9aC)(a+b\,\text{Sec}[c+dx])\text{Sin}[c+dx]}{15d\sqrt{\text{Cos}[c+dx]}}-$$

$$\frac{2b(5A-3C)(a+b\,\text{Sec}[c+dx])^2\text{Sin}[c+dx]}{15d\sqrt{\text{Cos}[c+dx]}}+\frac{2A\sqrt{\text{Cos}[c+dx]}\,(a+b\,\text{Sec}[c+dx])^3\text{Sin}[c+dx]}{3d}$$

$$\left(3ia^2Ab\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(-\frac{2i\sqrt{2}\,e^{-idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]}{d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}-\right.\right.$$

$$\left.\frac{2i\sqrt{2}\,e^{idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2i(c+dx)}\right]}{3d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}\right)(a+b\,\text{Sec}[c+dx])^3$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(iAb^3\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(-\frac{2i\sqrt{2}\,e^{-idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]}{d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}-\right.\right.$$

$$\left.\frac{2i\sqrt{2}\,e^{idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2i(c+dx)}\right]}{3d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}\right)(a+b\,\text{Sec}[c+dx])^3$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)+$$

$$\left(ia^3B\,\text{Cos}[c+dx]^5\,\text{Csc}[c]\left(-\frac{2i\sqrt{2}\,e^{-idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2i(c+dx)}\right]}{d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}-\right.\right.$$

$$\left.\frac{2i\sqrt{2}\,e^{idx}\sqrt{1+e^{2i(c+dx)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2i(c+dx)}\right]}{3d\sqrt{e^{-i(c+dx)}\left(1+e^{2i(c+dx)}\right)}}\right)(a+b\,\text{Sec}[c+dx])^3$$

$$\left.\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\right)\Big/\left((b+a\,\text{Cos}[c+dx])^3(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx])\right)-$$

$$\left(3 i a b^2 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i a^2 b C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i b^3 C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\frac{1}{(b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Cos}[c+d x]^{11/2} (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(-\frac{4 \left(15 a^2 A b-10 A b^3+5 a^3 B-30 a b^2 B-30 a^2 b C-6 b^3 C+15 a^2 A b \operatorname{Cos}[2 c]+5 a^3 B \operatorname{Cos}[2 c]\right) \operatorname{Csc}[2 c]}{5 d} + \frac{4 a^3 A \operatorname{Cos}[d x] \operatorname{Sin}[c]}{3 d} + \frac{4 a^3 A \operatorname{Cos}[c] \operatorname{Sin}[d x]}{3 d} + \frac{4 b^3 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3 \operatorname{Sin}[d x]}{5 d} + \frac{4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^2 \left(3 b^3 C \operatorname{Sin}[c]+5 b^3 B \operatorname{Sin}[d x]+15 a b^2 C \operatorname{Sin}[d x]\right)}{15 d} + \frac{1}{15 d} 4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]\right.$$

$$\left(5 b^3 B \operatorname{Sin}[c] + 15 a b^2 C \operatorname{Sin}[c] + 15 A b^3 \operatorname{Sin}[d x] + 45 a b^2 B \operatorname{Sin}[d x] + 45 a^2 b C \operatorname{Sin}[d x] + 9 b^3 C \operatorname{Sin}[d x]\right) -$$

$$\left(4 a^3 A \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a + b \operatorname{Sec}[c+d x])^3 \right.$$

$$\left(A + B \operatorname{Sec}[c+d x] + C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1 - \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(3 d (b + a \operatorname{Cos}[c+d x])^3 (A + 2 C + 2 B \operatorname{Cos}[c+d x] + A \operatorname{Cos}[2 c + 2 d x]) \sqrt{1 + \operatorname{Cot}[c]^2}\right) -$$

$$\left(12 a A b^2 \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a + b \operatorname{Sec}[c+d x])^3 \right.$$

$$\left(A + B \operatorname{Sec}[c+d x] + C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1 - \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(d (b + a \operatorname{Cos}[c+d x])^3 (A + 2 C + 2 B \operatorname{Cos}[c+d x] + A \operatorname{Cos}[2 c + 2 d x]) \sqrt{1 + \operatorname{Cot}[c]^2}\right) -$$

$$\left(12 a^2 b B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a + b \operatorname{Sec}[c+d x])^3 \right.$$

$$\left(A + B \operatorname{Sec}[c+d x] + C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1 - \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(d (b + a \operatorname{Cos}[c+d x])^3 (A + 2 C + 2 B \operatorname{Cos}[c+d x] + A \operatorname{Cos}[2 c + 2 d x]) \sqrt{1 + \operatorname{Cot}[c]^2}\right) -$$

$$\left(4 b^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a + b \operatorname{Sec}[c+d x])^3 \right.$$

$$\left(A + B \operatorname{Sec}[c+d x] + C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1 - \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1 + \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/$$

$$\left(3 d (b + a \operatorname{Cos}[c+d x])^3 (A + 2 C + 2 B \operatorname{Cos}[c+d x] + A \operatorname{Cos}[2 c + 2 d x]) \sqrt{1 + \operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^3 C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a + b \operatorname{Sec}[c+d x])^3 \right.$$

$$\left(A + B \operatorname{Sec}[c+d x] + C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1 - \operatorname{Sin}[d x - \operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Bigg(4\,a\,b^2\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(5\,a^3\,A-15\,a\,A\,b^2-15\,a^2\,b\,B-3\,b^3\,B-5\,a^3\,C-9\,a\,b^2\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$

$$\frac{2\left(63\,a^2\,A\,b+7\,A\,b^3+21\,a^3\,B+21\,a\,b^2\,B+21\,a^2\,b\,C+5\,b^3\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}+$$

$$\frac{2\left(280\,a\,A\,b^2+231\,a^2\,b\,B+63\,b^3\,B+48\,a^3\,C+164\,a\,b^2\,C\right)\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\left(35\,A\,b^2+63\,a\,b\,B+24\,a^2\,C+25\,b^2\,C\right)\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{105\,d\,\sqrt{\text{Cos}[c+d\,x]}}+$$

$$\frac{2\,(7\,b\,B+6\,a\,C)\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{35\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{2\,C\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{7\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

$$\Bigg(i\,a^3\,A\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(3 i a A b^2 \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i a^2 b B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i b^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(i a^3 C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(9\,i\,a\,b^2\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\text{Sec}[c+d\,x])^3$$

$$\left.\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right)\Big/\left(5\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$\text{Cos}[c+d\,x]^{11/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\frac{4\,\left(5\,a^3\,A-30\,a\,A\,b^2-30\,a^2\,b\,B-6\,b^3\,B-10\,a^3\,C-18\,a\,b^2\,C+5\,a^3\,A\,\text{Cos}[2\,c]\right)\,\text{Csc}[2\,c]}{5\,d}+\right.$$

$$\frac{4\,b^3\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^4\,\text{Sin}[d\,x]}{7\,d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\left(5\,b^3\,C\,\text{Sin}[c]+7\,b^3\,B\,\text{Sin}[d\,x]+21\,a\,b^2\,C\,\text{Sin}[d\,x]\right)}{35\,d}+$$

$$\frac{1}{105\,d}\,4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(35\,A\,b^3\,\text{Sin}[c]+105\,a\,b^2\,B\,\text{Sin}[c]+105\,a^2\,b\,C\,\text{Sin}[c]+25\,b^3\,C\,\text{Sin}[c]+315\,a\,A\,b^2\,\text{Sin}[d\,x]+\right.$$

$$\left.315\,a^2\,b\,B\,\text{Sin}[d\,x]+63\,b^3\,B\,\text{Sin}[d\,x]+105\,a^3\,C\,\text{Sin}[d\,x]+189\,a\,b^2\,C\,\text{Sin}[d\,x]\right)+\frac{1}{105\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2$$

$$\left.\left(21\,b^3\,B\,\text{Sin}[c]+63\,a\,b^2\,C\,\text{Sin}[c]+35\,A\,b^3\,\text{Sin}[d\,x]+105\,a\,b^2\,B\,\text{Sin}[d\,x]+105\,a^2\,b\,C\,\text{Sin}[d\,x]+25\,b^3\,C\,\text{Sin}[d\,x]\right)\right)-$$

$$\left(12\,a^2\,A\,b\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,A\,b^3\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\,(a+b\,\text{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4 a^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a b^2 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(4 a^2 b C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(20 b^3 C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(21 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{\sqrt{\operatorname{Cos}[c+d x]}}, x, 8, 0\right\}$$

$$-\frac{2\left(45 a^2 A b+9 A b^3+15 a^3 B+27 a b^2 B+27 a^2 b C+7 b^3 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{15 d}+$$

$$\frac{2\left(21 a^3 A+21 a A b^2+21 a^2 b B+5 b^3 B+7 a^3 C+15 a b^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{21 d}+$$

$$\frac{2\left(252 a A b^2+171 a^2 b B+75 b^3 B+16 a^3 C+176 a b^2 C\right) \text{Sin}[c+d x]}{315 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2\left(45 a^2 A b+9 A b^3+15 a^3 B+27 a b^2 B+27 a^2 b C+7 b^3 C\right) \text{Sin}[c+d x]}{15 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{2\left(63 A b^2+99 a b B+24 a^2 C+49 b^2 C\right)(a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{315 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2(3 b B+2 a C)(a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{21 d \text{Cos}[c+d x]^{3/2}}+\frac{2 C(a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{9 d \text{Cos}[c+d x]^{3/2}}$$

$$\frac{1}{(b+a \text{Cos}[c+d x])^3(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}$$

$$\text{Cos}[c+d x]^{11/2}(a+b \text{Sec}[c+d x])^3\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(\frac{8\left(45 a^2 A b+9 A b^3+15 a^3 B+27 a b^2 B+27 a^2 b C+7 b^3 C\right) \text{Csc}[2 c]}{15 d}+\frac{4 b^3 C \text{Sec}[c] \text{Sec}[c+d x]^5 \text{Sin}[d x]}{9 d}+\right.$$

$$\frac{4 \text{Sec}[c] \text{Sec}[c+d x]^4\left(7 b^3 C \text{Sin}[c]+9 b^3 B \text{Sin}[d x]+27 a b^2 C \text{Sin}[d x]\right)}{63 d}+$$

$$\frac{1}{315 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^2\left(63 A b^3 \text{Sin}[c]+189 a b^2 B \text{Sin}[c]+189 a^2 b C \text{Sin}[c]+49 b^3 C \text{Sin}[c]+315 a A b^2 \text{Sin}[d x]+\right.$$

$$\left.315 a^2 b B \text{Sin}[d x]+75 b^3 B \text{Sin}[d x]+105 a^3 C \text{Sin}[d x]+225 a b^2 C \text{Sin}[d x]\right)+\frac{1}{315 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^3$$

$$\left(45 b^3 B \text{Sin}[c]+135 a b^2 C \text{Sin}[c]+63 A b^3 \text{Sin}[d x]+189 a b^2 B \text{Sin}[d x]+189 a^2 b C \text{Sin}[d x]+49 b^3 C \text{Sin}[d x]\right)+$$

$$\frac{1}{105 d} 4 \text{Sec}[c] \text{Sec}[c+d x]\left(105 a A b^2 \text{Sin}[c]+105 a^2 b B \text{Sin}[c]+25 b^3 B \text{Sin}[c]+35 a^3 C \text{Sin}[c]+75 a b^2 C \text{Sin}[c]+\right.$$

$$\left.\left.315 a^2 A b \text{Sin}[d x]+63 A b^3 \text{Sin}[d x]+105 a^3 B \text{Sin}[d x]+189 a b^2 B \text{Sin}[d x]+189 a^2 b C \text{Sin}[d x]+49 b^3 C \text{Sin}[d x]\right)\right)-$$

$$\left(4 a^3 A \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b \text{Sec}[c+d x])^3\right.$$

$$\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right) \text{Sec}[d x-\text{ArcTan}[\text{Cot}[c]]] \sqrt{1-\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\, \text{Sin}[c] \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]} \sqrt{1+\text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]}\right) \Big/$$

$$\left(d(b+a \text{Cos}[c+d x])^3(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x]) \sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,a\,A\,b^2\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$
$$\left.(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right.$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,a^2\,b\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$
$$\left.(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right.$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(20\,b^3\,B\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$
$$\left.(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right.$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,a^3\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$
$$\left.(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right.$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(20\,a\,b^2\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$
$$\left.(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right.$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\left(6\,a^2\,A\,b\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(6\,A\,b^3\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(2 a^3 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(18 a b^2 B \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/\right.$$

$$\left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\operatorname{Tan}[c]^2}\right)-\frac{\frac{\operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]}{\sqrt{1+\operatorname{Tan}[c]^2}}+\frac{2 \operatorname{Cos}[c]^2 \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}{\operatorname{Cos}[c]^2+\operatorname{Sin}[c]^2}}{\sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5 d (b+a \operatorname{Cos}[c+d x])^3 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(18 a^2 b C \operatorname{Cos}[c+d x]^5 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^3 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(14\,b^3\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\,x,\,9,\,0\right\}$$

$$-\frac{2\left(15 a^3 A+27 a A b^2+27 a^2 b B+7 b^3 B+9 a^3 C+21 a b^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{15 d}+$$

$$\frac{2\left(231 a^2 A b+55 A b^3+77 a^3 B+165 a b^2 B+165 a^2 b C+45 b^3 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{231 d}+$$

$$\frac{2\left(1584 a A b^2+979 a^2 b B+539 b^3 B+48 a^3 C+1212 a b^2 C\right) \text{Sin}[c+d x]}{3465 d \text{Cos}[c+d x]^{5/2}}+$$

$$\frac{2\left(231 a^2 A b+55 A b^3+77 a^3 B+165 a b^2 B+165 a^2 b C+45 b^3 C\right) \text{Sin}[c+d x]}{231 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2\left(15 a^3 A+27 a A b^2+27 a^2 b B+7 b^3 B+9 a^3 C+21 a b^2 C\right) \text{Sin}[c+d x]}{15 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{2\left(99 A b^2+143 a b B+24 a^2 C+81 b^2 C\right)(a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{693 d \text{Cos}[c+d x]^{5/2}}+$$

$$\frac{2(11 b B+6 a C)(a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{99 d \text{Cos}[c+d x]^{5/2}}+\frac{2 C(a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{11 d \text{Cos}[c+d x]^{5/2}}$$

$$\frac{1}{(b+a \text{Cos}[c+d x])^3(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}$$

$$\text{Cos}[c+d x]^{11/2}(a+b \text{Sec}[c+d x])^3\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(\frac{8\left(15 a^3 A+27 a A b^2+27 a^2 b B+7 b^3 B+9 a^3 C+21 a b^2 C\right) \text{Csc}[2 c]}{15 d}+\frac{4 b^3 C \text{Sec}[c] \text{Sec}[c+d x]^6 \text{Sin}[d x]}{11 d}+\right.$$

$$\frac{4 \text{Sec}[c] \text{Sec}[c+d x]^5\left(9 b^3 C \text{Sin}[c]+11 b^3 B \text{Sin}[d x]+33 a b^2 C \text{Sin}[d x]\right)}{99 d}+$$

$$\frac{1}{3465 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^3\left(495 A b^3 \text{Sin}[c]+1485 a b^2 B \text{Sin}[c]+1485 a^2 b C \text{Sin}[c]+405 b^3 C \text{Sin}[c]+\right.$$

$$\left.2079 a A b^2 \text{Sin}[d x]+2079 a^2 b B \text{Sin}[d x]+539 b^3 B \text{Sin}[d x]+693 a^3 C \text{Sin}[d x]+1617 a b^2 C \text{Sin}[d x]\right)+$$

$$\frac{1}{1155 d} 4 \text{Sec}[c] \text{Sec}[c+d x]\left(1155 a^2 A b \text{Sin}[c]+275 A b^3 \text{Sin}[c]+385 a^3 B \text{Sin}[c]+825 a b^2 B \text{Sin}[c]+\right.$$

$$825 a^2 b C \text{Sin}[c]+225 b^3 C \text{Sin}[c]+1155 a^3 A \text{Sin}[d x]+2079 a A b^2 \text{Sin}[d x]+2079 a^2 b B \text{Sin}[d x]+$$

$$\left.539 b^3 B \text{Sin}[d x]+693 a^3 C \text{Sin}[d x]+1617 a b^2 C \text{Sin}[d x]\right)+\frac{1}{693 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^4$$

$$\left(77 b^3 B \text{Sin}[c]+231 a b^2 C \text{Sin}[c]+99 A b^3 \text{Sin}[d x]+297 a b^2 B \text{Sin}[d x]+297 a^2 b C \text{Sin}[d x]+81 b^3 C \text{Sin}[d x]\right)+$$

$$\frac{1}{3465 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^2\left(2079 a A b^2 \text{Sin}[c]+2079 a^2 b B \text{Sin}[c]+539 b^3 B \text{Sin}[c]+\right.$$

$$693 a^3 C \text{Sin}[c]+1617 a b^2 C \text{Sin}[c]+3465 a^2 A b \text{Sin}[d x]+825 A b^3 \text{Sin}[d x]+$$

$$\left.\left.1155 a^3 B \text{Sin}[d x]+2475 a b^2 B \text{Sin}[d x]+2475 a^2 b C \text{Sin}[d x]+675 b^3 C \text{Sin}[d x]\right)\right)-$$

$$\left(4 a^2 A b \text{Cos}[c+d x]^5 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$(a+b \text{Sec}[c+d x])^3\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(20\,A\,b^3\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(4\,a^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(20\,a\,b^2\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(20\,a^2\,b\,C\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^3$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(7\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(60\, b^3\, C\, \mathrm{Cos}[c+d\,x]^5\, \mathrm{Csc}[c]\, \mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^3\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)+$$

$$\left(2\,a^3\,A\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(18\,a\,A\,b^2\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(18\,a^2\,b\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(14\,b^3\,B\,\text{Cos}[c+d\,x]^5\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(6\,a^3\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(14\,a\,b^2\,C\,\mathrm{Cos}[c+d\,x]^5\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^3\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{13/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,9,\,0\right\}$$

$$\frac{2\left(77 a^4 A+546 a^2 A b^2+117 A b^4+364 a^3 b B+468 a b^3 B+91 a^4 C+702 a^2 b^2 C+195 b^4 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{195 d}+$$

$$\frac{2\left(180 a^3 A b+220 a A b^3+45 a^4 B+330 a^2 b^2 B+77 b^4 B+220 a^3 b C+308 a b^3 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{231 d}+$$

$$\frac{2\left(180 a^3 A b+220 a A b^3+45 a^4 B+330 a^2 b^2 B+77 b^4 B+220 a^3 b C+308 a b^3 C\right) \sqrt{\text{Cos}[c+d x]}\,\text{Sin}[c+d x]}{231 d}+$$

$$\frac{2\left(5929 a^4 A+25217 a^2 A b^2+384 A b^4+22763 a^3 b B+13351 a b^3 B+7007 a^4 C+33319 a^2 b^2 C\right) \text{Cos}[c+d x]^{3/2} \text{Sin}[c+d x]}{45045 d}+$$

$$\frac{2\left(2518 a^2 A b+192 A b^3+1053 a^3 B+2171 a b^2 B+3146 a^2 b C\right) \text{Cos}[c+d x]^{5/2} (a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{9009 d}+$$

$$\frac{2\left(121 a^2 A+48 A b^2+221 a b B+143 a^2 C\right) \text{Cos}[c+d x]^{7/2} (a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{1287 d}+$$

$$\frac{2(8 A b+13 a B) \text{Cos}[c+d x]^{9/2} (a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{143 d}+\frac{2 A \text{Cos}[c+d x]^{11/2} (a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{13 d}$$

$$\frac{1}{(b+a \text{Cos}[c+d x])^4 (A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}$$

$$\text{Cos}[c+d x]^{13/2} (a+b \text{Sec}[c+d x])^4 \left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(-\frac{4\left(77 a^4 A+546 a^2 A b^2+117 A b^4+364 a^3 b B+468 a b^3 B+91 a^4 C+702 a^2 b^2 C+195 b^4 C\right) \text{Cot}[c]}{195 d}+\right.$$

$$\frac{\left(1740 a^3 A b+2024 a A b^3+435 a^4 B+3036 a^2 b^2 B+616 b^4 B+2024 a^3 b C+2464 a b^3 C\right) \text{Cos}[d x] \text{Sin}[c]}{462 d}+$$

$$\frac{\left(1897 a^4 A+11856 a^2 A b^2+1872 A b^4+7904 a^3 b B+7488 a b^3 B+1976 a^4 C+11232 a^2 b^2 C\right) \text{Cos}[2 d x] \text{Sin}[2 c]}{4680 d}+$$

$$\frac{a\left(228 a^2 A b+176 A b^3+57 a^3 B+264 a b^2 B+176 a^2 b C\right) \text{Cos}[3 d x] \text{Sin}[3 c]}{308 d}+$$

$$\frac{a^2\left(20 a^2 A+78 A b^2+52 a b B+13 a^2 C\right) \text{Cos}[4 d x] \text{Sin}[4 c]}{234 d}+\frac{a^3 (4 A b+a B) \text{Cos}[5 d x] \text{Sin}[5 c]}{44 d}+\frac{a^4 A \text{Cos}[6 d x] \text{Sin}[6 c]}{104 d}+$$

$$\frac{\left(1740 a^3 A b+2024 a A b^3+435 a^4 B+3036 a^2 b^2 B+616 b^4 B+2024 a^3 b C+2464 a b^3 C\right) \text{Cos}[c] \text{Sin}[d x]}{462 d}+$$

$$\frac{\left(1897 a^4 A+11856 a^2 A b^2+1872 A b^4+7904 a^3 b B+7488 a b^3 B+1976 a^4 C+11232 a^2 b^2 C\right) \text{Cos}[2 c] \text{Sin}[2 d x]}{4680 d}+$$

$$\frac{a\left(228 a^2 A b+176 A b^3+57 a^3 B+264 a b^2 B+176 a^2 b C\right) \text{Cos}[3 c] \text{Sin}[3 d x]}{308 d}+$$

$$\frac{a^2\left(20 a^2 A+78 A b^2+52 a b B+13 a^2 C\right) \text{Cos}[4 c] \text{Sin}[4 d x]}{234 d}+$$

$$\left.\frac{a^3 (4 A b+a B) \text{Cos}[5 c] \text{Sin}[5 d x]}{44 d}+\frac{a^4 A \text{Cos}[6 c] \text{Sin}[6 d x]}{104 d}\right)-$$

$$\left(240\, a^3\, A\, b\, \text{Cos}[c+d\,x]^6\, \text{Csc}[c]\, \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(77\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(80\,a\,A\,b^3\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(60\,a^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(77\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(40\,a^2\,b^2\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(7\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,b^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(80\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(16\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(154\,a^4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(195\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(28\, a^2\, A\, b^2\, \mathrm{Cos}[c+d\,x]^6\, \mathrm{Csc}[c]\, (a+b\,\mathrm{Sec}[c+d\,x])^4\, \left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,A\,b^4\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(56\,a^3\,b\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(24\,a\,b^3\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(14\,a^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(36\,a^2\,b^2\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2\,b^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{2\,\left(28\,a^3\,A\,b+36\,a\,A\,b^3+7\,a^4\,B+54\,a^2\,b^2\,B+15\,b^4\,B+36\,a^3\,b\,C+60\,a\,b^3\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{15\,d}+$$

$$\frac{2\,\left(45\,a^4\,A+330\,a^2\,A\,b^2+77\,A\,b^4+220\,a^3\,b\,B+308\,a\,b^3\,B+55\,a^4\,C+462\,a^2\,b^2\,C+231\,b^4\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{231\,d}+$$

$$\frac{2\,\left(675\,a^4\,A+3199\,a^2\,A\,b^2+128\,A\,b^4+2761\,a^3\,b\,B+2057\,a\,b^3\,B+825\,a^4\,C+4653\,a^2\,b^2\,C\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3465\,d}+$$

$$\frac{2\,\left(1346\,a^2\,A\,b+192\,A\,b^3+539\,a^3\,B+1353\,a\,b^2\,B+1782\,a^2\,b\,C\right)\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])\,\text{Sin}[c+d\,x]}{3465\,d}+$$

$$\frac{2\,\left(27\,a^2\,A+16\,A\,b^2+55\,a\,b\,B+33\,a^2\,C\right)\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^2\,\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{2\,(8\,A\,b+11\,a\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^3\,\text{Sin}[c+d\,x]}{99\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^4\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,\text{Cos}[c+d\,x]^{13/2}\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,\left(28\,a^3\,A\,b+36\,a\,A\,b^3+7\,a^4\,B+54\,a^2\,b^2\,B+15\,b^4\,B+36\,a^3\,b\,C+60\,a\,b^3\,C\right)\,\text{Cot}[c]}{15\,d}+\right.$$

$$\frac{\left(435\,a^4\,A+3036\,a^2\,A\,b^2+616\,A\,b^4+2024\,a^3\,b\,B+2464\,a\,b^3\,B+506\,a^4\,C+3696\,a^2\,b^2\,C\right)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{462\,d}+$$

$$\frac{a\,\left(76\,a^2\,A\,b+72\,A\,b^3+19\,a^3\,B+108\,a\,b^2\,B+72\,a^2\,b\,C\right)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{45\,d}+$$

$$\frac{a^2\,\left(57\,a^2\,A+264\,A\,b^2+176\,a\,b\,B+44\,a^2\,C\right)\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{308\,d}+$$

$$\frac{a^3\,(4\,A\,b+a\,B)\,\text{Cos}[4\,d\,x]\,\text{Sin}[4\,c]}{18\,d}+\frac{a^4\,A\,\text{Cos}[5\,d\,x]\,\text{Sin}[5\,c]}{44\,d}+$$

$$\frac{\left(435\,a^4\,A+3036\,a^2\,A\,b^2+616\,A\,b^4+2024\,a^3\,b\,B+2464\,a\,b^3\,B+506\,a^4\,C+3696\,a^2\,b^2\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{462\,d}+$$

$$\frac{a\,\left(76\,a^2\,A\,b+72\,A\,b^3+19\,a^3\,B+108\,a\,b^2\,B+72\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{45\,d}+$$

$$\frac{a^2\,\left(57\,a^2\,A+264\,A\,b^2+176\,a\,b\,B+44\,a^2\,C\right)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{308\,d}+$$

$$\left.\frac{a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{18\,d}+\frac{a^4\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{44\,d}\right)-$$

$$\left(60\,a^4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(77\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(40\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(7\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,A\,b^4\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(80\,a^3\,b\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(16\,a\,b^3\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(20\,a^4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(8\,a^2\,b^2\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(4\,b^4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(56\,a^3\,A\,b\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(24\,a\,A\,b^3\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(14\,a^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(36\,a^2\,b^2\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\text{Tan}[c]^2}\,\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(2\,b^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(24\,a^3\,b\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(8\,a\,b^3\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{2\left(7a^4A+54a^2Ab^2+15Ab^4+36a^3bB+60ab^3B+9a^4C+90a^2b^2C-15b^4C\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{15d}+$$

$$\frac{2\left(20a^3Ab+28aAb^3+5a^4B+42a^2b^2B+21b^4B+28a^3bC+84ab^3C\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{21d}-$$

$$\frac{2b\left(251a^2Ab+187Ab^3+75a^3B+423ab^2B+357a^2bC-315b^3C\right)\text{Sin}[c+dx]}{315d\sqrt{\text{Cos}[c+dx]}}+$$

$$\frac{2\left(202a^2Ab+64Ab^3+75a^3B+261ab^2B+294a^2bC\right)\sqrt{\text{Cos}[c+dx]}\,(a+b\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{315d}+$$

$$\frac{2\left(49a^2A+48Ab^2+117abB+63a^2C\right)\text{Cos}[c+dx]^{3/2}(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{315d}+$$

$$\frac{2(8Ab+9aB)\,\text{Cos}[c+dx]^{5/2}(a+b\,\text{Sec}[c+dx])^3\,\text{Sin}[c+dx]}{63d}+\frac{2A\,\text{Cos}[c+dx]^{7/2}(a+b\,\text{Sec}[c+dx])^4\,\text{Sin}[c+dx]}{9d}$$

$$\frac{1}{(b+a\,\text{Cos}[c+dx])^4\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)}$$

$$\text{Cos}[c+dx]^{13/2}(a+b\,\text{Sec}[c+dx])^4\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{1}{15d}4\Big(7a^4A+54a^2Ab^2+15Ab^4+36a^3bB+60ab^3B+9a^4C+90a^2b^2C-30b^4C+7a^4A\,\text{Cos}[2c]+54a^2Ab^2\,\text{Cos}[2c]+$$

$$15Ab^4\,\text{Cos}[2c]+36a^3bB\,\text{Cos}[2c]+60ab^3B\,\text{Cos}[2c]+9a^4C\,\text{Cos}[2c]+90a^2b^2C\,\text{Cos}[2c]\Big)\,\text{Csc}[2c]+$$

$$\frac{a\left(92a^2Ab+112Ab^3+23a^3B+168ab^2B+112a^2bC\right)\text{Cos}[dx]\,\text{Sin}[c]}{21d}+$$

$$\frac{a^2\left(19a^2A+108Ab^2+72abB+18a^2C\right)\text{Cos}[2dx]\,\text{Sin}[2c]}{45d}+\frac{a^3(4Ab+aB)\,\text{Cos}[3dx]\,\text{Sin}[3c]}{7d}+$$

$$\frac{a^4A\,\text{Cos}[4dx]\,\text{Sin}[4c]}{18d}+\frac{a\left(92a^2Ab+112Ab^3+23a^3B+168ab^2B+112a^2bC\right)\text{Cos}[c]\,\text{Sin}[dx]}{21d}+$$

$$\frac{4b^4C\,\text{Sec}[c]\,\text{Sec}[c+dx]\,\text{Sin}[dx]}{d}+\frac{a^2\left(19a^2A+108Ab^2+72abB+18a^2C\right)\text{Cos}[2c]\,\text{Sin}[2dx]}{45d}+$$

$$\frac{a^3(4Ab+aB)\,\text{Cos}[3c]\,\text{Sin}[3dx]}{7d}+\frac{a^4A\,\text{Cos}[4c]\,\text{Sin}[4dx]}{18d}\Bigg)-$$

$$\Bigg(80a^3Ab\,\text{Cos}[c+dx]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+dx])^4$$

$$\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21d\,(b+a\,\text{Cos}[c+dx])^4\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(16\,a\,A\,b^3\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(20\,a^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(8\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,b^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(16\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(16\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(14\,a^4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(36\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(2\,A\,b^4\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(24\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(8\,a\,b^3\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(6\,a^4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(12\,a^2\,b^2\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(2\,b^4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{7/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{2\left(12 a^3 A b+20 a A b^3+3 a^4 B+30 a^2 b^2 B-5 b^4 B+20 a^3 b C-20 a b^3 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{5 d}+$$

$$\frac{2\left(5 a^4 A+42 a^2 A b^2+21 A b^4+28 a^3 b B+84 a b^3 B+7 a^4 C+126 a^2 b^2 C+7 b^4 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{21 d}-$$

$$\frac{2 b\left(25 a^3 A+141 a A b^2+119 a^2 b B-105 b^3 B+35 a^3 C-385 a b^2 C\right) \text{Sin}[c+d x]}{105 d \sqrt{\text{Cos}[c+d x]}}-$$

$$\frac{2 b\left(25 a^2 A+87 A b^2+98 a b B+35 a^2 C-35 b^2 C\right)(a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{105 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{2\left(25 a^2 A+48 A b^2+77 a b B+35 a^2 C\right) \sqrt{\text{Cos}[c+d x]}\,(a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{105 d}+$$

$$\frac{2(8 A b+7 a B) \text{Cos}[c+d x]^{3/2}(a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{35 d}+\frac{2 A \text{Cos}[c+d x]^{5/2}(a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{7 d}$$

$$\left(12 i a^3 A b \text{Cos}[c+d x]^6 \text{Csc}[c]\left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}-\right.\right.$$

$$\left.\frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}\right)(a+b \text{Sec}[c+d x])^4$$

$$\left.\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left(5(b+a \text{Cos}[c+d x])^4(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\left(4 i a A b^3 \text{Cos}[c+d x]^6 \text{Csc}[c]\left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}-\right.\right.$$

$$\left.\frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}\right)(a+b \text{Sec}[c+d x])^4$$

$$\left.\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \text{Cos}[c+d x])^4(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])\right)+$$

$$\left(3 i a^4 B \text{Cos}[c+d x]^6 \text{Csc}[c]\left(-\frac{2 i \sqrt{2}\, e^{-i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}-\right.\right.$$

$$\left.\frac{2 i \sqrt{2}\, e^{i d x} \sqrt{1+e^{2 i (c+d x)}}\, \text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)}\left(1+e^{2 i (c+d x)}\right)}}\right)(a+b \text{Sec}[c+d x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left(5\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(6\,i\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left((b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(i\,b^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left((b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(4\,i\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left((b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)-$$

$$\left(4\,i\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\left(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-\right.\right.$$

$$\left.\left.\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\mathrm{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\right)(a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\Big/\left((b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Cos}[c+d\,x]^{13/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}$$

$$\Bigg(-\frac{1}{5\,d}\,4\,\big(12\,a^3\,A\,b+20\,a\,A\,b^3+3\,a^4\,B+30\,a^2\,b^2\,B-10\,b^4\,B+20\,a^3\,b\,C-40\,a\,b^3\,C+12\,a^3\,A\,b\,\mathrm{Cos}[2\,c]+$$

$$20\,a\,A\,b^3\,\mathrm{Cos}[2\,c]+3\,a^4\,B\,\mathrm{Cos}[2\,c]+30\,a^2\,b^2\,B\,\mathrm{Cos}[2\,c]+20\,a^3\,b\,C\,\mathrm{Cos}[2\,c]\big)\,\mathrm{Csc}[2\,c]+$$

$$\frac{a^2\left(23\,a^2\,A+168\,A\,b^2+112\,a\,b\,B+28\,a^2\,C\right)\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{21\,d}+\frac{2\,a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{5\,d}+$$

$$\frac{a^4\,A\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{7\,d}+\frac{a^2\left(23\,a^2\,A+168\,A\,b^2+112\,a\,b\,B+28\,a^2\,C\right)\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{21\,d}+$$

$$\frac{4\,b^4\,C\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]^2\,\mathrm{Sin}[d\,x]}{3\,d}+\frac{4\,\mathrm{Sec}[c]\,\mathrm{Sec}[c+d\,x]\left(b^4\,C\,\mathrm{Sin}[c]+3\,b^4\,B\,\mathrm{Sin}[d\,x]+12\,a\,b^3\,C\,\mathrm{Sin}[d\,x]\right)}{3\,d}+$$

$$\frac{2\,a^3\,(4\,A\,b+a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{5\,d}+\frac{a^4\,A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}\Bigg)-$$

$$\Bigg(20\,a^4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\Bigg(8\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\Bigg(4\,A\,b^4\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(16\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(16\,a\,b^3\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(4\,a^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\Big(24\,a^2\,b^2\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\Big[\Big\{\frac{1}{4},\frac{1}{2}\Big\},\Big\{\frac{5}{4}\Big\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\Big]\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\big(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\big)\,\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\Big(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\Big)-$$

$$\left(4 b^4 C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\operatorname{Cos}[c+d x]^{5/2} (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right), x, 8, 0\right\}$$

$$\frac{2 \left(3 a^4 A+30 a^2 A b^2-5 A b^4+20 a^3 b B-20 a b^3 B+5 a^4 C-30 a^2 b^2 C-3 b^4 C\right) \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), 2\right]}{5 d}+$$

$$\frac{2 \left(4 a^3 A b+12 a A b^3+a^4 B+18 a^2 b^2 B+b^4 B+12 a^3 b C+4 a b^3 C\right) \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), 2\right]}{3 d}-$$

$$\frac{2 b \left(17 a^2 A b-15 A b^3+5 a^3 B-55 a b^2 B-73 a^2 b C-9 b^3 C\right) \operatorname{Sin}[c+d x]}{15 d \sqrt{\operatorname{Cos}[c+d x]}}-$$

$$\frac{2 b \left(14 a A b+5 a^2 B-5 b^2 B-14 a b C\right) (a+b \operatorname{Sec}[c+d x]) \operatorname{Sin}[c+d x]}{15 d \sqrt{\operatorname{Cos}[c+d x]}}-$$

$$\frac{2 b (11 A b+5 a B-3 b C) (a+b \operatorname{Sec}[c+d x])^2 \operatorname{Sin}[c+d x]}{15 d \sqrt{\operatorname{Cos}[c+d x]}}+$$

$$\frac{2 (8 A b+5 a B) \sqrt{\operatorname{Cos}[c+d x]} (a+b \operatorname{Sec}[c+d x])^3 \operatorname{Sin}[c+d x]}{15 d}+\frac{2 A \operatorname{Cos}[c+d x]^{3/2} (a+b \operatorname{Sec}[c+d x])^4 \operatorname{Sin}[c+d x]}{5 d}$$

$$\left(3 i a^4 A \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}-\frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right)+$$

$$\left(6 i a^2 A b^2 \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}-\right.\right.$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(i\,A\,b^4\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(4\,i\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(4\,i\,a\,b^3\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(i\,a^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(6\,i\,a^2\,b^2\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left((b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)-$$

$$\Bigg(3\,i\,b^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\Bigg(-\frac{2\,i\,\sqrt{2}\,e^{-i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[-\frac{1}{4},\frac{1}{2},\frac{3}{4},-e^{2\,i\,(c+d\,x)}\right]}{d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}-$$

$$\frac{2\,i\,\sqrt{2}\,e^{i\,d\,x}\,\sqrt{1+e^{2\,i\,(c+d\,x)}}\,\text{Hypergeometric2F1}\left[\frac{1}{2},\frac{3}{4},\frac{7}{4},-e^{2\,i\,(c+d\,x)}\right]}{3\,d\,\sqrt{e^{-i\,(c+d\,x)}\,\left(1+e^{2\,i\,(c+d\,x)}\right)}}\Bigg)\,(a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg)\Big/\left(5\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\frac{1}{(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}$$

$$\text{Cos}[c+d\,x]^{13/2}\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\frac{1}{5\,d}4\,\Big(3\,a^4\,A+30\,a^2\,A\,b^2-10\,A\,b^4+20\,a^3\,b\,B-40\,a\,b^3\,B+5\,a^4\,C-60\,a^2\,b^2\,C-6\,b^4\,C+3\,a^4\,A\,\text{Cos}[2\,c]+$$

$$30\,a^2\,A\,b^2\,\text{Cos}[2\,c]+20\,a^3\,b\,B\,\text{Cos}[2\,c]+5\,a^4\,C\,\text{Cos}[2\,c]\Big)\,\text{Csc}[2\,c]+\frac{4\,a^3\,(4\,A\,b+a\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{3\,d}+$$

$$\frac{2\,a^4\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,a^3\,(4\,A\,b+a\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{3\,d}+\frac{4\,b^4\,C\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^3\,\text{Sin}[d\,x]}{5\,d}+$$

$$\frac{4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\,\left(3\,b^4\,C\,\text{Sin}[c]+5\,b^4\,B\,\text{Sin}[d\,x]+20\,a\,b^3\,C\,\text{Sin}[d\,x]\right)}{15\,d}+\frac{1}{15\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\Big(5\,b^4\,B\,\text{Sin}[c]+20\,a$$

$$b^3\,C\,\text{Sin}[c]+15\,A\,b^4\,\text{Sin}[d\,x]+60\,a\,b^3\,B\,\text{Sin}[d\,x]+90\,a^2\,b^2\,C\,\text{Sin}[d\,x]+9\,b^4\,C\,\text{Sin}[d\,x]\Big)+\frac{2\,a^4\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\Bigg)-$$

$$\left(16\,a^3\,A\,b\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(16\,a\,A\,b^3\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,a^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(24\,a^2\,b^2\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,b^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(16\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(16\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$
$$\frac{2\,\left(20\,a^3\,A\,b-20\,a\,A\,b^3+5\,a^4\,B-30\,a^2\,b^2\,B-3\,b^4\,B-20\,a^3\,b\,C-12\,a\,b^3\,C\right)\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,d}+$$
$$\frac{2\,\left(7\,a^4\,A+126\,a^2\,A\,b^2+7\,A\,b^4+84\,a^3\,b\,B+28\,a\,b^3\,B+21\,a^4\,C+42\,a^2\,b^2\,C+5\,b^4\,C\right)\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{21\,d}-$$
$$\frac{2\,b\,\left(35\,a^3\,A-385\,a\,A\,b^2-511\,a^2\,b\,B-63\,b^3\,B-279\,a^3\,C-227\,a\,b^2\,C\right)\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$
$$\frac{2\,b\,\left(35\,a^2\,A-35\,A\,b^2-98\,a\,b\,B-87\,a^2\,C-25\,b^2\,C\right)\,(a+b\,\mathrm{Sec}[c+d\,x])\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$
$$\frac{2\,b\,(35\,a\,A-21\,b\,B-39\,a\,C)\,(a+b\,\mathrm{Sec}[c+d\,x])^2\,\mathrm{Sin}[c+d\,x]}{105\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}-$$
$$\frac{2\,b\,(7\,A-3\,C)\,(a+b\,\mathrm{Sec}[c+d\,x])^3\,\mathrm{Sin}[c+d\,x]}{21\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

$$\left(4 i a^3 A b \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(4 i a A b^3 \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\left(i a^4 B \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(6 i a^2 b^2 B \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(3 i b^4 B \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(4 i a^3 b C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left((b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) -$$

$$\left(12 i a b^3 C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \left(-\frac{2 i \sqrt{2} e^{-i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[-\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, -e^{2 i (c+d x)}\right]}{d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}} - \frac{2 i \sqrt{2} e^{i d x} \sqrt{1+e^{2 i (c+d x)}} \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{3}{4}, \frac{7}{4}, -e^{2 i (c+d x)}\right]}{3 d \sqrt{e^{-i (c+d x)} \left(1+e^{2 i (c+d x)}\right)}}\right) (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right) \Big/ \left(5 (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])\right) +$$

$$\frac{1}{(b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \operatorname{Cos}[c+d x]^{13/2} (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(-\frac{4 \left(20 a^3 A b-40 a A b^3+5 a^4 B-60 a^2 b^2 B-6 b^4 B-40 a^3 b C-24 a b^3 C+20 a^3 A b \operatorname{Cos}[2 c]+5 a^4 B \operatorname{Cos}[2 c]\right) \operatorname{Csc}[2 c]}{5 d} + \frac{4 a^4 A \operatorname{Cos}[d x] \operatorname{Sin}[c]}{3 d} + \frac{4 a^4 A \operatorname{Cos}[c] \operatorname{Sin}[d x]}{3 d} + \frac{4 b^4 C \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^4 \operatorname{Sin}[d x]}{7 d} + \frac{4 \operatorname{Sec}[c] \operatorname{Sec}[c+d x]^3 \left(5 b^4 C \operatorname{Sin}[c]+7 b^4 B \operatorname{Sin}[d x]+28 a b^3 C \operatorname{Sin}[d x]\right)}{35 d} +\right.$$

$$\frac{1}{105\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]\,\left(35\,A\,b^4\,\text{Sin}[c]+140\,a\,b^3\,B\,\text{Sin}[c]+210\,a^2\,b^2\,C\,\text{Sin}[c]+25\,b^4\,C\,\text{Sin}[c]+420\,a\,A\,b^3\,\text{Sin}[d\,x]+630\,a^2\,b^2\,B\,\text{Sin}[d\,x]+63\,b^4\,B\,\text{Sin}[d\,x]+420\,a^3\,b\,C\,\text{Sin}[d\,x]+252\,a\,b^3\,C\,\text{Sin}[d\,x]\right)+\frac{1}{105\,d}4\,\text{Sec}[c]\,\text{Sec}[c+d\,x]^2\left(21\,b^4\,B\,\text{Sin}[c]+84\,a\,b^3\,C\,\text{Sin}[c]+35\,A\,b^4\,\text{Sin}[d\,x]+140\,a\,b^3\,B\,\text{Sin}[d\,x]+210\,a^2\,b^2\,C\,\text{Sin}[d\,x]+25\,b^4\,C\,\text{Sin}[d\,x]\right)\Bigg)-$$

$$\left(4\,a^4\,A\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(24\,a^2\,A\,b^2\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4\,A\,b^4\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(16\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(16\,a\,b^3\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(4\,a^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(8\,a^2\,b^2\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)-$$
$$\left(20\,b^4\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\sqrt{1+\text{Cot}[c]^2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^4\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{2\left(15a^4A-90a^2Ab^2-9Ab^4-60a^3bB-36ab^3B-15a^4C-54a^2b^2C-7b^4C\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{15d}+$$

$$\frac{2\left(84a^3Ab+28aAb^3+21a^4B+42a^2b^2B+5b^4B+28a^3bC+20ab^3C\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{21d}+$$

$$\frac{2\left(1533a^2Ab^2+189Ab^4+837a^3bB+681ab^3B+128a^4C+883a^2b^2C+147b^4C\right)\text{Sin}[c+dx]}{315d\sqrt{\text{Cos}[c+dx]}}+$$

$$\frac{2\left(294aAb^2+261a^2bB+75b^3B+64a^3C+202ab^2C\right)(a+b\,\text{Sec}[c+dx])\,\text{Sin}[c+dx]}{315d\sqrt{\text{Cos}[c+dx]}}+$$

$$\frac{2\left(63Ab^2+117abB+48a^2C+49b^2C\right)(a+b\,\text{Sec}[c+dx])^2\,\text{Sin}[c+dx]}{315d\sqrt{\text{Cos}[c+dx]}}+$$

$$\frac{2(9bB+8aC)(a+b\,\text{Sec}[c+dx])^3\,\text{Sin}[c+dx]}{63d\sqrt{\text{Cos}[c+dx]}}+\frac{2C(a+b\,\text{Sec}[c+dx])^4\,\text{Sin}[c+dx]}{9d\sqrt{\text{Cos}[c+dx]}}$$

$$\frac{1}{(b+a\,\text{Cos}[c+dx])^4\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)}$$

$$\text{Cos}[c+dx]^{13/2}(a+b\,\text{Sec}[c+dx])^4\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{4\left(15a^4A-180a^2Ab^2-18Ab^4-120a^3bB-72ab^3B-30a^4C-108a^2b^2C-14b^4C+15a^4A\,\text{Cos}[2c]\right)\text{Csc}[2c]}{15d}+$$

$$\frac{4b^4C\,\text{Sec}[c]\,\text{Sec}[c+dx]^5\,\text{Sin}[dx]}{9d}+\frac{4\,\text{Sec}[c]\,\text{Sec}[c+dx]^4\left(7b^4C\,\text{Sin}[c]+9b^4B\,\text{Sin}[dx]+36ab^3C\,\text{Sin}[dx]\right)}{63d}+$$

$$\frac{1}{315d}4\,\text{Sec}[c]\,\text{Sec}[c+dx]^2\left(63Ab^4\,\text{Sin}[c]+252ab^3B\,\text{Sin}[c]+378a^2b^2C\,\text{Sin}[c]+49b^4C\,\text{Sin}[c]+420aAb^3\,\text{Sin}[dx]+\right.$$

$$\left.630a^2b^2B\,\text{Sin}[dx]+75b^4B\,\text{Sin}[dx]+420a^3bC\,\text{Sin}[dx]+300ab^3C\,\text{Sin}[dx]\right)+\frac{1}{315d}4\,\text{Sec}[c]\,\text{Sec}[c+dx]^3$$

$$\left(45b^4B\,\text{Sin}[c]+180ab^3C\,\text{Sin}[c]+63Ab^4\,\text{Sin}[dx]+252ab^3B\,\text{Sin}[dx]+378a^2b^2C\,\text{Sin}[dx]+49b^4C\,\text{Sin}[dx]\right)+$$

$$\frac{1}{105d}4\,\text{Sec}[c]\,\text{Sec}[c+dx]\left(140aAb^3\,\text{Sin}[c]+210a^2b^2B\,\text{Sin}[c]+25b^4B\,\text{Sin}[c]+140a^3bC\,\text{Sin}[c]+\right.$$

$$100ab^3C\,\text{Sin}[c]+630a^2Ab^2\,\text{Sin}[dx]+63Ab^4\,\text{Sin}[dx]+420a^3bB\,\text{Sin}[dx]+$$

$$\left.252ab^3B\,\text{Sin}[dx]+105a^4C\,\text{Sin}[dx]+378a^2b^2C\,\text{Sin}[dx]+49b^4C\,\text{Sin}[dx]\right)\Bigg)-$$

$$\Bigg(16a^3Ab\,\text{Cos}[c+dx]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+dx])^4$$

$$\left(A+B\,\text{Sec}[c+dx]+C\,\text{Sec}[c+dx]^2\right)\text{Sec}[dx-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[dx-\text{ArcTan}[\text{Cot}[c]]]}\Bigg)\Big/$$

$$\left(d(b+a\,\text{Cos}[c+dx])^4\left(A+2C+2B\,\text{Cos}[c+dx]+A\,\text{Cos}[2c+2dx]\right)\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(16\,a\,A\,b^3\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(4\,a^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(8\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(20\,b^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$
$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$
$$\left(16\,a^3\,b\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right](a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$
$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$
$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(3\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(80\,a\,b^3\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,\mathrm{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]^2\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\right.$$

$$\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{1-\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\left.\sqrt{-\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\right)\Big/$$

$$\left(21\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\mathrm{Cot}[c]^2}\right)-$$

$$\left(2\,a^4\,A\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(12\,a^2\,A\,b^2\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(6\,A\,b^4\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(8\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(24\,a\,b^3\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(2\,a^4\,C\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(36\, a^2\, b^2\, C\, \text{Cos}[c+d\,x]^6\, \text{Csc}[c]\, (a+b\, \text{Sec}[c+d\,x])^4\, \left(A+B\, \text{Sec}[c+d\,x]+C\, \text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(14\, b^4\, C\, \text{Cos}[c+d\,x]^6\, \text{Csc}[c]\, (a+b\, \text{Sec}[c+d\,x])^4\, \left(A+B\, \text{Sec}[c+d\,x]+C\, \text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$-\frac{2\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{15 d}+$$

$$\frac{2\left(231 a^4 A+462 a^2 A b^2+55 A b^4+308 a^3 b B+220 a b^3 B+77 a^4 C+330 a^2 b^2 C+45 b^4 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{231 d}+$$

$$\frac{2\left(4653 a^2 A b^2+825 A b^4+2057 a^3 b B+2761 a b^3 B+128 a^4 C+3199 a^2 b^2 C+675 b^4 C\right) \text{Sin}[c+d x]}{3465 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right) \text{Sin}[c+d x]}{15 d \sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{2\left(1782 a A b^2+1353 a^2 b B+539 b^3 B+192 a^3 C+1346 a b^2 C\right)(a+b \text{Sec}[c+d x]) \text{Sin}[c+d x]}{3465 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2\left(33 A b^2+55 a b B+16 a^2 C+27 b^2 C\right)(a+b \text{Sec}[c+d x])^2 \text{Sin}[c+d x]}{231 d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{2(11 b B+8 a C)(a+b \text{Sec}[c+d x])^3 \text{Sin}[c+d x]}{99 d \text{Cos}[c+d x]^{3/2}}+\frac{2 C(a+b \text{Sec}[c+d x])^4 \text{Sin}[c+d x]}{11 d \text{Cos}[c+d x]^{3/2}}$$

$$\frac{1}{(b+a \text{Cos}[c+d x])^4(A+2 C+2 B \text{Cos}[c+d x]+A \text{Cos}[2 c+2 d x])}$$

$$\text{Cos}[c+d x]^{13/2}(a+b \text{Sec}[c+d x])^4\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\left(\frac{8\left(60 a^3 A b+36 a A b^3+15 a^4 B+54 a^2 b^2 B+7 b^4 B+36 a^3 b C+28 a b^3 C\right) \text{Csc}[2 c]}{15 d}+\frac{4 b^4 C \text{Sec}[c] \text{Sec}[c+d x]^6 \text{Sin}[d x]}{11 d}+\right.$$

$$\frac{4 \text{Sec}[c] \text{Sec}[c+d x]^5\left(9 b^4 C \text{Sin}[c]+11 b^4 B \text{Sin}[d x]+44 a b^3 C \text{Sin}[d x]\right)}{99 d}+$$

$$\frac{1}{3465 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^3\left(495 A b^4 \text{Sin}[c]+1980 a b^3 B \text{Sin}[c]+2970 a^2 b^2 C \text{Sin}[c]+405 b^4 C \text{Sin}[c]+\right.$$
$$\left.2772 a A b^3 \text{Sin}[d x]+4158 a^2 b^2 B \text{Sin}[d x]+539 b^4 B \text{Sin}[d x]+2772 a^3 b C \text{Sin}[d x]+2156 a b^3 C \text{Sin}[d x]\right)+$$

$$\frac{1}{1155 d} 4 \text{Sec}[c] \text{Sec}[c+d x]\left(2310 a^2 A b^2 \text{Sin}[c]+275 A b^4 \text{Sin}[c]+1540 a^3 b B \text{Sin}[c]+1100 a b^3 B \text{Sin}[c]+\right.$$
$$385 a^4 C \text{Sin}[c]+1650 a^2 b^2 C \text{Sin}[c]+225 b^4 C \text{Sin}[c]+4620 a^3 A b \text{Sin}[d x]+2772 a A b^3 \text{Sin}[d x]+1155 a^4 B \text{Sin}[d x]+$$
$$\left.4158 a^2 b^2 B \text{Sin}[d x]+539 b^4 B \text{Sin}[d x]+2772 a^3 b C \text{Sin}[d x]+2156 a b^3 C \text{Sin}[d x]\right)+\frac{1}{693 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^4$$
$$\left(77 b^4 B \text{Sin}[c]+308 a b^3 C \text{Sin}[c]+99 A b^4 \text{Sin}[d x]+396 a b^3 B \text{Sin}[d x]+594 a^2 b^2 C \text{Sin}[d x]+81 b^4 C \text{Sin}[d x]\right)+$$

$$\frac{1}{3465 d} 4 \text{Sec}[c] \text{Sec}[c+d x]^2\left(2772 a A b^3 \text{Sin}[c]+4158 a^2 b^2 B \text{Sin}[c]+539 b^4 B \text{Sin}[c]+2772 a^3 b C \text{Sin}[c]+\right.$$
$$2156 a b^3 C \text{Sin}[c]+6930 a^2 A b^2 \text{Sin}[d x]+825 A b^4 \text{Sin}[d x]+4620 a^3 b B \text{Sin}[d x]+$$
$$\left.\left.3300 a b^3 B \text{Sin}[d x]+1155 a^4 C \text{Sin}[d x]+4950 a^2 b^2 C \text{Sin}[d x]+675 b^4 C \text{Sin}[d x]\right)\right)-$$

$$\left(4 a^4 A \text{Cos}[c+d x]^6 \text{Csc}[c] \text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\}, \text{Sin}[d x-\text{ArcTan}[\text{Cot}[c]]]^2\right]\right.$$

$$(a+b \text{Sec}[c+d x])^4\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(8\,a^2\,A\,b^2\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(20\,A\,b^4\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(16\,a^3\,b\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(3\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\Big(80\,a\,b^3\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,\text{HypergeometricPFQ}\left[\left\{\frac{1}{4},\frac{1}{2}\right\},\left\{\frac{5}{4}\right\},\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]^2\right](a+b\,\text{Sec}[c+d\,x])^4$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{1-\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{-\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\Big)\Big/$$

$$\left(21\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{1+\text{Cot}[c]^2}\right)-$$

$$\left(4 a^4 C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(3 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(40 a^2 b^2 C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(7 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) -$$

$$\left(60 b^4 C \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] \operatorname{HypergeometricPFQ}\left[\left\{\frac{1}{4}, \frac{1}{2}\right\}, \left\{\frac{5}{4}\right\}, \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]^2\right] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{1-\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{-\sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\right) \Big/ \left(77 d (b+a \operatorname{Cos}[c+d x])^4 (A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x]) \sqrt{1+\operatorname{Cot}[c]^2}\right) +$$

$$\left(8 a^3 A b \operatorname{Cos}[c+d x]^6 \operatorname{Csc}[c] (a+b \operatorname{Sec}[c+d x])^4 \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right) \left(\left(\operatorname{HypergeometricPFQ}\left[\left\{-\frac{1}{2}, -\frac{1}{4}\right\}, \left\{\frac{3}{4}\right\}, \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]^2\right] \operatorname{Sin}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \operatorname{Tan}[c]\right) \Big/ \left(\sqrt{1-\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{1+\operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]]} \sqrt{\operatorname{Cos}[c] \operatorname{Cos}[d x+\operatorname{ArcTan}[\operatorname{Tan}[c]]] \sqrt{1+\operatorname{Tan}[c]^2}}\right.\right.\right.$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(24\,a\,A\,b^3\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\Bigg(2\,a^4\,B\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/$$

$$\Bigg(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\text{Tan}[c]^2}\Bigg)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(36\,a^2\,b^2\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(14\,b^4\,B\,\mathrm{Cos}[c+d\,x]^6\,\mathrm{Csc}[c]\,(a+b\,\mathrm{Sec}[c+d\,x])^4\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\mathrm{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]^2\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\mathrm{Tan}[c]^2}\right)-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,\mathrm{Cos}[c]^2\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}{\mathrm{Cos}[c]^2+\mathrm{Sin}[c]^2}}{\sqrt{\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\mathrm{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(24\,a^3\,b\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(5\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)+$$

$$\left(56\,a\,b^3\,C\,\text{Cos}[c+d\,x]^6\,\text{Csc}[c]\,(a+b\,\text{Sec}[c+d\,x])^4\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(\left(\text{HypergeometricPFQ}\left[\left\{-\frac{1}{2},-\frac{1}{4}\right\},\left\{\frac{3}{4}\right\},\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]^2\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]\right)\Big/\right.$$

$$\left(\sqrt{1-\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\right.$$

$$\left.\left.\left.\sqrt{1+\text{Tan}[c]^2}\right)-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,\text{Cos}[c]^2\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}{\text{Cos}[c]^2+\text{Sin}[c]^2}}{\sqrt{\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}\right)\right)\Big/$$

$$\left(15\,d\,(b+a\,\text{Cos}[c+d\,x])^4\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right)$$

Timed out after 60 seconds:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\,x,\,8,\,0\right\}$$

$$\frac{2\,\left(3\,a^2\,A+5\,A\,b^2-5\,a\,b\,B+5\,a^2\,C\right)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{5\,a^3\,d}-$$

$$\frac{2\,\left(a^2\,A\,b+3\,A\,b^3-a^3\,B-3\,a\,b^2\,B+3\,a^2\,b\,C\right)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{3\,a^4\,d}+\frac{2\,b^2\,\left(A\,b^2-a\,b\,B+a^2\,C\right)\,\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{a^4\,(a+b)\,d}-$$

$$\frac{2\,(A\,b-a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,a^2\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,\text{Sin}[c+d\,x]}{5\,a\,d}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(A\,b-a\,B)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^2\,d}+\frac{2\left(a^2\,A+3\,A\,b^2-3\,a\,b\,B+3\,a^2\,C\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,a^3\,d}-$$

$$\frac{2\,b\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^3\,(a+b)\,d}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\ \text{Sin}[c+d\,x]}{3\,a\,d}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\ \left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{a+b\,\text{Sec}[c+d\,x]},\ x,\ 6,\ 0\right\}$$

$$\frac{2\,A\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}-\frac{2\,(A\,b-a\,B)\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a^2\,d}+\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a^2\,(a+b)\,d}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,C\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{b\,d}+\frac{2\,A\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,d}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{a\,b\,(a+b)\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{b\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\ (a+b\,\text{Sec}[c+d\,x])},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\,(b\,B-a\,C)\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{b^2\,d}+\frac{2\,C\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ 2\right]}{3\,b\,d}+$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}\,(c+d\,x),\ 2\right]}{b^2\,(a+b)\,d}+\frac{2\,C\,\text{Sin}[c+d\,x]}{3\,b\,d\,\text{Cos}[c+d\,x]^{3/2}}+\frac{2\,(b\,B-a\,C)\,\text{Sin}[c+d\,x]}{b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\ (a+b\,\text{Sec}[c+d\,x])},\ x,\ 9,\ 0\right\}$$

$$-\frac{2\left(5Ab^2-5abB+5a^2C+3b^2C\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{5b^3d}+\frac{2(bB-aC)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3b^2d}-\frac{2a\left(Ab^2-abB+a^2C\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{b^3(a+b)d}+\frac{2C\text{Sin}[c+dx]}{5bd\text{Cos}[c+dx]^{5/2}}+\frac{2(bB-aC)\text{Sin}[c+dx]}{3b^2d\text{Cos}[c+dx]^{3/2}}+\frac{2\left(5Ab^2-5abB+5a^2C+3b^2C\right)\text{Sin}[c+dx]}{5b^3d\sqrt{\text{Cos}[c+dx]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Cos}[c+dx]^{5/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)}{(a+b\text{Sec}[c+dx])^2},x,9,0\right\}$$

$$\frac{\left(6a^4A+24a^2Ab^2-35Ab^4-20a^3bB+25ab^3B+10a^4C-15a^2b^2C\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{5a^4\left(a^2-b^2\right)d}-\frac{\left(4a^4Ab+20a^2Ab^3-21Ab^5-2a^5B-16a^3b^2B+15ab^4B+12a^4bC-9a^2b^3C\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3a^5\left(a^2-b^2\right)d}+\frac{b^2\left(9a^2Ab^2-7Ab^4-7a^3bB+5ab^3B+5a^4C-3a^2b^2C\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a^5(a-b)(a+b)^2d}-\frac{\left(4a^2Ab-7Ab^3-2a^3B+5ab^2B-3a^2bC\right)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3a^3\left(a^2-b^2\right)d}+\frac{\left(2a^2A-7Ab^2+5abB-5a^2C\right)\text{Cos}[c+dx]^{3/2}\text{Sin}[c+dx]}{5a^2\left(a^2-b^2\right)d}+\frac{\left(Ab^2-abB+a^2C\right)\text{Cos}[c+dx]^{3/2}\text{Sin}[c+dx]}{a\left(a^2-b^2\right)d(a+b\text{Sec}[c+dx])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Cos}[c+dx]^{3/2}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)}{(a+b\text{Sec}[c+dx])^2},x,8,0\right\}$$

$$-\frac{\left(4a^2Ab-5Ab^3-2a^3B+3ab^2B-a^2bC\right)\text{EllipticE}\left[\frac{1}{2}(c+dx),2\right]}{a^3\left(a^2-b^2\right)d}+\frac{\left(2a^4A+16a^2Ab^2-15Ab^4-12a^3bB+9ab^3B+6a^4C-3a^2b^2C\right)\text{EllipticF}\left[\frac{1}{2}(c+dx),2\right]}{3a^4\left(a^2-b^2\right)d}-\frac{b\left(7a^2Ab^2-5Ab^4-5a^3bB+3ab^3B+3a^4C-a^2b^2C\right)\text{EllipticPi}\left[\frac{2a}{a+b},\frac{1}{2}(c+dx),2\right]}{a^4(a-b)(a+b)^2d}+\frac{\left(2a^2A-5Ab^2+3abB-3a^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)d}+\frac{\left(Ab^2-abB+a^2C\right)\sqrt{\text{Cos}[c+dx]}\,\text{Sin}[c+dx]}{a\left(a^2-b^2\right)d(a+b\text{Sec}[c+dx])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{\text{Cos}[c+dx]}\left(A+B\text{Sec}[c+dx]+C\text{Sec}[c+dx]^2\right)}{(a+b\text{Sec}[c+dx])^2},x,7,0\right\}$$

$$\frac{\left(2 a^2 A-3 A b^2+a b B-a^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right) d}-\frac{\left(4 a^2 A b-3 A b^3-2 a^3 B+a b^2 B+a^2 b C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^3\left(a^2-b^2\right) d}+$$
$$\frac{\left(5 a^2 A b^2-3 A b^4-3 a^3 b B+a b^3 B+a^4 C+a^2 b^2 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^3(a-b)(a+b)^2 d}+$$
$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{a\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}\,(a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\sqrt{\text{Cos}[c+d x]}\,(a+b \text{Sec}[c+d x])^2},x,7,0\right\}$$
$$\frac{\left(A b^2-a b B+a^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{a b\left(a^2-b^2\right) d}+\frac{\left(2 a^2 A-A b^2-a b B+a^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a^2\left(a^2-b^2\right) d}-$$
$$\frac{\left(3 a^2 A b^2-A b^4-a^3 b B-a b^3 B-a^4 C+3 a^2 b^2 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a^2(a-b) b(a+b)^2 d}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}\,(a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\text{Cos}[c+d x]^{3/2}\,(a+b \text{Sec}[c+d x])^2},x,8,0\right\}$$
$$-\frac{\left(A b^2-a b B+3 a^2 C-2 b^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{b^2\left(a^2-b^2\right) d}-\frac{\left(A b^2-a b B+a^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{a b\left(a^2-b^2\right) d}+$$
$$\frac{\left(a^2 A b^2+A b^4+a^3 b B-3 a b^3 B-3 a^4 C+5 a^2 b^2 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{a(a-b) b^2(a+b)^2 d}+$$
$$\frac{\left(A b^2-a b B+3 a^2 C-2 b^2 C\right) \text{Sin}[c+d x]}{b^2\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d \text{Cos}[c+d x]^{3/2}\,(a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\text{Cos}[c+d x]^{5/2}\,(a+b \text{Sec}[c+d x])^2},x,9,0\right\}$$
$$\frac{\left(a A b^2-3 a^2 b B+2 b^3 B+5 a^3 C-4 a b^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{b^3\left(a^2-b^2\right) d}+\frac{\left(3 A b^2-3 a b B+5 a^2 C-2 b^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{3 b^2\left(a^2-b^2\right) d}+$$
$$\frac{\left(a^2 A b^2-3 A b^4-3 a^3 b B+5 a b^3 B+5 a^4 C-7 a^2 b^2 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{(a-b) b^3(a+b)^2 d}+$$
$$\frac{\left(3 A b^2-3 a b B+5 a^2 C-2 b^2 C\right) \text{Sin}[c+d x]}{3 b^2\left(a^2-b^2\right) d \text{Cos}[c+d x]^{3/2}}-\frac{\left(a A b^2-3 a^2 b B+2 b^3 B+5 a^3 C-4 a b^2 C\right) \text{Sin}[c+d x]}{b^3\left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]}}-$$
$$\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{b\left(a^2-b^2\right) d \text{Cos}[c+d x]^{5/2}\,(a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 9,\ 0\right\}$$

$$-\frac{\left(24\,a^4\,A\,b-65\,a^2\,A\,b^3+35\,A\,b^5-8\,a^5\,B+29\,a^3\,b^2\,B-15\,a\,b^4\,B-9\,a^4\,b\,C+3\,a^2\,b^3\,C\right)\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{4\,a^4\left(a^2-b^2\right)^2 d}+\frac{1}{12\,a^5\left(a^2-b^2\right)^2 d}$$

$$\left(8\,a^6\,A+128\,a^4\,A\,b^2-223\,a^2\,A\,b^4+105\,A\,b^6-72\,a^5\,b\,B+99\,a^3\,b^3\,B-45\,a\,b^5\,B+24\,a^6\,C-15\,a^4\,b^2\,C+9\,a^2\,b^4\,C\right)$$

$$\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]-$$

$$\frac{b\left(63\,a^4\,A\,b^2-86\,a^2\,A\,b^4+35\,A\,b^6-35\,a^5\,b\,B+38\,a^3\,b^3\,B-15\,a\,b^5\,B+15\,a^6\,C-6\,a^4\,b^2\,C+3\,a^2\,b^4\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}(c+d\,x),\ 2\right]}{4\,a^5\,(a-b)^2\,(a+b)^3\,d}+$$

$$\frac{\left(8\,a^4\,A-61\,a^2\,A\,b^2+35\,A\,b^4+33\,a^3\,b\,B-15\,a\,b^3\,B-21\,a^4\,C+3\,a^2\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{Sin}[c+d\,x]}{12\,a^3\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{Sin}[c+d\,x]}{2\,a\left(a^2-b^2\right)d\,(a+b\,\text{Sec}[c+d\,x])^2}+$$

$$\frac{\left(13\,a^2\,A\,b^2-7\,A\,b^4-9\,a^3\,b\,B+3\,a\,b^3\,B+5\,a^4\,C+a^2\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\ \text{Sin}[c+d\,x]}{4\,a^2\left(a^2-b^2\right)^2 d\,(a+b\,\text{Sec}[c+d\,x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(8\,a^4\,A-29\,a^2\,A\,b^2+15\,A\,b^4+9\,a^3\,b\,B-3\,a\,b^3\,B-5\,a^4\,C-a^2\,b^2\,C\right)\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{4\,a^3\left(a^2-b^2\right)^2 d}-$$

$$\frac{\left(24\,a^4\,A\,b-33\,a^2\,A\,b^3+15\,A\,b^5-8\,a^5\,B+5\,a^3\,b^2\,B-3\,a\,b^4\,B+7\,a^4\,b\,C-a^2\,b^3\,C\right)\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ 2\right]}{4\,a^4\left(a^2-b^2\right)^2 d}+$$

$$\frac{\left(35\,a^4\,A\,b^2-38\,a^2\,A\,b^4+15\,A\,b^6-15\,a^5\,b\,B+6\,a^3\,b^3\,B-3\,a\,b^5\,B+3\,a^6\,C+10\,a^4\,b^2\,C-a^2\,b^4\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\ \frac{1}{2}(c+d\,x),\ 2\right]}{4\,a^4\,(a-b)^2\,(a+b)^3\,d}+$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{2\,a\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^2}+\frac{\left(11\,a^2\,A\,b^2-5\,A\,b^4-7\,a^3\,b\,B+a\,b^3\,B+3\,a^4\,C+3\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{4\,a^2\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\ (a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 8,\ 0\right\}$$

$$\frac{\left(9 a^2 A b^2-3 A b^4-5 a^3 b B-a b^3 B+a^4 C+5 a^2 b^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a^2 b \left(a^2-b^2\right)^2 d}+\frac{\left(8 a^4 A-5 a^2 A b^2+3 A b^4-7 a^3 b B+a b^3 B+3 a^4 C+3 a^2 b^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a^3 \left(a^2-b^2\right)^2 d}-\frac{\left(15 a^4 A b^2-6 a^2 A b^4+3 A b^6-3 a^5 b B-10 a^3 b^3 B+a b^5 B-a^6 C+10 a^4 b^2 C+3 a^2 b^4 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^3 (a-b)^2 b (a+b)^3 d}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])^2}-\frac{\left(7 a^2 A b^2-A b^4-3 a^3 b B-3 a b^3 B-a^4 C+7 a^2 b^2 C\right) \text{Sin}[c+d x]}{4 a b \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\text{Cos}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])^3},x,8,0\right\}$$

$$-\frac{\left(5 a^2 A b^2+A b^4-a^3 b B-5 a b^3 B-3 a^4 C+9 a^2 b^2 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 a b^2 \left(a^2-b^2\right)^2 d}-\frac{\left(7 a^2 A b^2-A b^4-3 a^3 b B-3 a b^3 B-a^4 C+7 a^2 b^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a^2 b \left(a^2-b^2\right)^2 d}+\frac{\left(3 a^4 A b^2+10 a^2 A b^4-A b^6+a^5 b B-10 a^3 b^3 B-3 a b^5 B+3 a^6 C-6 a^4 b^2 C+15 a^2 b^4 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a^2 (a-b)^2 b^2 (a+b)^3 d}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d \text{Cos}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])^2}+\frac{\left(5 a^2 A b^2+A b^4-a^3 b B-5 a b^3 B-3 a^4 C+9 a^2 b^2 C\right) \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]} (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2}{\text{Cos}[c+d x]^{5/2} (a+b \text{Sec}[c+d x])^3},x,9,0\right\}$$

$$\frac{\left(a^2 A b^2+5 A b^4+3 a^3 b B-9 a b^3 B-15 a^4 C+29 a^2 b^2 C-8 b^4 C\right) \text{EllipticE}\left[\frac{1}{2}(c+d x),2\right]}{4 b^3 \left(a^2-b^2\right)^2 d}+\frac{\left(3 a^2 A b^2+3 A b^4+a^3 b B-7 a b^3 B-5 a^4 C+11 a^2 b^2 C\right) \text{EllipticF}\left[\frac{1}{2}(c+d x),2\right]}{4 a b^2 \left(a^2-b^2\right)^2 d}+\frac{\left(a^4 A b^2-10 a^2 A b^4-3 A b^6+3 a^5 b B-6 a^3 b^3 B+15 a b^5 B-15 a^6 C+38 a^4 b^2 C-35 a^2 b^4 C\right) \text{EllipticPi}\left[\frac{2 a}{a+b},\frac{1}{2}(c+d x),2\right]}{4 a (a-b)^2 b^3 (a+b)^3 d}-\frac{\left(a^2 A b^2+5 A b^4+3 a^3 b B-9 a b^3 B-15 a^4 C+29 a^2 b^2 C-8 b^4 C\right) \text{Sin}[c+d x]}{4 b^3 \left(a^2-b^2\right)^2 d \sqrt{\text{Cos}[c+d x]}}-\frac{\left(A b^2-a b B+a^2 C\right) \text{Sin}[c+d x]}{2 b \left(a^2-b^2\right) d \text{Cos}[c+d x]^{5/2} (a+b \text{Sec}[c+d x])^2}+\frac{\left(3 a^2 A b^2+3 A b^4+a^3 b B-7 a b^3 B-5 a^4 C+11 a^2 b^2 C\right) \text{Sin}[c+d x]}{4 b^2 \left(a^2-b^2\right)^2 d \text{Cos}[c+d x]^{3/2} (a+b \text{Sec}[c+d x])}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^3},\ x,\ 10,\ 0\right\}$$

$$\frac{\left(3\,a^3\,A\,b^2-9\,a\,A\,b^4-15\,a^4\,b\,B+29\,a^2\,b^3\,B-8\,b^5\,B+35\,a^5\,C-65\,a^3\,b^2\,C+24\,a\,b^4\,C\right)\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{4\,b^4\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^2\,A\,b^2-21\,A\,b^4-15\,a^3\,b\,B+33\,a\,b^3\,B+35\,a^4\,C-61\,a^2\,b^2\,C+8\,b^4\,C\right)\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,2\right]}{12\,b^3\,\left(a^2-b^2\right)^2\,d}+$$

$$\frac{\left(3\,a^4\,A\,b^2-6\,a^2\,A\,b^4+15\,A\,b^6-15\,a^5\,b\,B+38\,a^3\,b^3\,B-35\,a\,b^5\,B+35\,a^6\,C-86\,a^4\,b^2\,C+63\,a^2\,b^4\,C\right)\text{EllipticPi}\left[\frac{2\,a}{a+b},\,\frac{1}{2}\,(c+d\,x),\,2\right]}{4\,(a-b)^2\,b^4\,(a+b)^3\,d}+$$

$$\frac{\left(3\,a^2\,A\,b^2-21\,A\,b^4-15\,a^3\,b\,B+33\,a\,b^3\,B+35\,a^4\,C-61\,a^2\,b^2\,C+8\,b^4\,C\right)\text{Sin}[c+d\,x]}{12\,b^3\,\left(a^2-b^2\right)^2\,d\,\text{Cos}[c+d\,x]^{3/2}}-$$

$$\frac{\left(3\,a^3\,A\,b^2-9\,a\,A\,b^4-15\,a^4\,b\,B+29\,a^2\,b^3\,B-8\,b^5\,B+35\,a^5\,C-65\,a^3\,b^2\,C+24\,a\,b^4\,C\right)\text{Sin}[c+d\,x]}{4\,b^4\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}-$$

$$\frac{\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{2\,b\,\left(a^2-b^2\right)\,d\,\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^2}+\frac{\left(a^2\,A\,b^2+5\,A\,b^4+3\,a^3\,b\,B-9\,a\,b^3\,B-7\,a^4\,C+13\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{4\,b^2\,\left(a^2-b^2\right)^2\,d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(147\,a^4\,A-24\,a^2\,A\,b^2-16\,A\,b^4+57\,a^3\,b\,B+24\,a\,b^3\,B+189\,a^4\,C-42\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{315\,a^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(36\,a^4\,A\,b-20\,a^2\,A\,b^3-16\,A\,b^5-75\,a^5\,B+51\,a^3\,b^2\,B+24\,a\,b^4\,B+42\,a^4\,b\,C-42\,a^2\,b^3\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{315\,a^4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(13\,a^2\,A\,b+8\,A\,b^3+75\,a^3\,B-12\,a\,b^2\,B+21\,a^2\,b\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{315\,a^3\,d}+$$

$$\frac{2\,\left(49\,a^2\,A-6\,A\,b^2+9\,a\,b\,B+63\,a^2\,C\right)\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{315\,a^2\,d}+$$

$$\frac{2\,(A\,b+9\,a\,B)\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{63\,a\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{9\,d}$$

$$\frac{1}{A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]}\,\mathrm{Cos}[c+dx]^{5/2}\sqrt{a+b\,\mathrm{Sec}[c+dx]}$$

$$\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)\left(-\frac{4\left(147a^4A-24a^2Ab^2-16Ab^4+57a^3bB+24ab^3B+189a^4C-42a^2b^2C\right)\mathrm{Cot}[c]}{315a^4d}+\right.$$

$$\frac{\left(57a^2Ab+32Ab^3+345a^3B-48ab^2B+84a^2bC\right)\mathrm{Cos}[dx]\,\mathrm{Sin}[c]}{315a^3d}+$$

$$\frac{\left(133a^2A-12Ab^2+18abB+126a^2C\right)\mathrm{Cos}[2dx]\,\mathrm{Sin}[2c]}{315a^2d}+\frac{(Ab+9aB)\,\mathrm{Cos}[3dx]\,\mathrm{Sin}[3c]}{63ad}+$$

$$\frac{A\,\mathrm{Cos}[4dx]\,\mathrm{Sin}[4c]}{18d}+\frac{\left(57a^2Ab+32Ab^3+345a^3B-48ab^2B+84a^2bC\right)\mathrm{Cos}[c]\,\mathrm{Sin}[dx]}{315a^3d}+$$

$$\left.\frac{\left(133a^2A-12Ab^2+18abB+126a^2C\right)\mathrm{Cos}[2c]\,\mathrm{Sin}[2dx]}{315a^2d}+\frac{(Ab+9aB)\,\mathrm{Cos}[3c]\,\mathrm{Sin}[3dx]}{63ad}+\frac{A\,\mathrm{Cos}[4c]\,\mathrm{Sin}[4dx]}{18d}\right)+$$

$$\frac{1}{315a^3\sqrt{b+a\,\mathrm{Cos}[c+dx]}\,\left(A+2C+2B\,\mathrm{Cos}[c+dx]+A\,\mathrm{Cos}[2c+2dx]\right)}$$

$$\mathrm{Cos}[c+dx]^{5/2}\,\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]\sqrt{a+b\,\mathrm{Sec}[c+dx]}\,\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right)$$

$$\left(-\left(222a^2Ab\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[dx-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\right/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(8\,A\,b^3\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(150\, a^3\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(12\, a\, b^2\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\;\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(294\,a^2\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,147\,a^4\,A\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,24\,a^2\,A\,b^2\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,16\,A\,b^4\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,57\,a^3\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)-$$

$$\frac{1}{d}\,24\,a\,b^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,189\,a^4\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,42\,a^2\,b^2\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{2\,(a+b)\,\left(19\,a^2\,A\,b+8\,A\,b^3+63\,a^3\,B-14\,a\,b^2\,B+35\,a^2\,b\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(25\,a^4\,A-17\,a^2\,A\,b^2-8\,A\,b^4-14\,a^3\,b\,B+14\,a\,b^3\,B+35\,a^4\,C-35\,a^2\,b^2\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(25\,a^2\,A-4\,A\,b^2+7\,a\,b\,B+35\,a^2\,C\right)\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,a^2\,d}+$$

$$\frac{2\,(A\,b+7\,a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{35\,a\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}\,\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,\left(19\,a^2\,A\,b+8\,A\,b^3+63\,a^3\,B-14\,a\,b^2\,B+35\,a^2\,b\,C\right)\,\text{Cot}[c]}{105\,a^3\,d}+\right.$$

$$\frac{\left(115\,a^2\,A-16\,A\,b^2+28\,a\,b\,B+140\,a^2\,C\right)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{105\,a^2\,d}+\frac{2\,(A\,b+7\,a\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{35\,a\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+$$

$$\frac{\left(115\,a^2\,A-16\,A\,b^2+28\,a\,b\,B+140\,a^2\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{105\,a^2\,d}+\frac{2\,(A\,b+7\,a\,B)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{35\,a\,d}+\frac{A\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{7\,d}\Bigg)-$$

$$\frac{1}{105\,a^2\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x]\right)}$$

$$\mathrm{Cos}[c+d\,x]^{5/2}\,\mathrm{Csc}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(\Bigg(50\,a^2\,A\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\,\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\left(4\,A\,b^2\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(98\,a\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\;\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(70\,a^2\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\frac{1}{d}\,19\,a^2\,A\,b\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\frac{1}{d}\,8\,A\,b^3\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,63\,a^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,14\,a\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,35\,a^2\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\;\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,8,\,0\right\}$$

$$\frac{2\,(a+b)\,\left(9\,a^2\,A-2\,A\,b^2+5\,a\,b\,B+15\,a^2\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{15\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,\left(2\,a^2\,A\,b-2\,A\,b^3-5\,a^3\,B+5\,a\,b^2\,B\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{15\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,(A\,b+5\,a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,a\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,d}$$

$$\frac{1}{A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\,\left(9\,a^2\,A-2\,A\,b^2+5\,a\,b\,B+15\,a^2\,C\right)\,\text{Cot}[c]}{15\,a^2\,d}+\right.$$

$$\left.\frac{4\,(A\,b+5\,a\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{15\,a\,d}+\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,d}+\frac{4\,(A\,b+5\,a\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{15\,a\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,d}\right)+$$

$$\frac{1}{15\,a\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\left(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]\right)}$$

$$\text{Cos}[c+d\,x]^{5/2}\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(14\,A\,b\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\right/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(10\,a\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\frac{\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\,\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}}{\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\,\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-\left(30\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]\right)}$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,9\,a^2\,A\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)+$$

$$\frac{1}{d}\,2\,A\,b^2\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,5\,a\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,15\,a^2\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\,\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}\,\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\,\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)$$

Timed out after 60 seconds:

$$\left\{\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{2\,(a+b)\,(A\,b+3\,a\,B)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,\left(a^2\,A-A\,b^2+3\,a^2\,C\right)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,b\,C\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,d}$$

???

Timed out after 60 seconds:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{(a+b)\,(2\,A-C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{(2\,a\,B+b\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{(2\,b\,B+a\,C)\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{d\,\sqrt{\text{Cos}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 11,\ 0\right\}$$

$$-\frac{(a+b)\,(4\,b\,B+a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{(8\,a\,A+4\,b\,B+3\,a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,A\,b^2+4\,a\,b\,B-a^2\,C+4\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{4\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{C\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{2\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{(4\,b\,B+a\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{4\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}{\mathrm{Cos}[c+d\,x]^{3/2}},\,x,\,12,\,0\right\}$$

$$-\frac{(a+b)\,\left(24\,A\,b^2+6\,a\,b\,B-3\,a^2\,C+16\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(24\,A\,b^2+18\,a\,b\,B-a^2\,C+16\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{24\,b\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,a\,A\,b^2-2\,a^2\,b\,B+8\,b^3\,B+a^3\,C+4\,a\,b^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticPi}\left[2,\,\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{8\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{C\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{3\,d\,\mathrm{Cos}[c+d\,x]^{5/2}}+$$

$$\frac{(6\,b\,B+a\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{12\,b\,d\,\mathrm{Cos}[c+d\,x]^{3/2}}+\frac{\left(24\,A\,b^2+6\,a\,b\,B-3\,a^2\,C+16\,b^2\,C\right)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{24\,b^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\,x,\,10,\,0\right\}$$

$$\frac{2(a+b)\left(147a^4A+33a^2Ab^2+8Ab^4+246a^3bB-18ab^3B+189a^4C+63a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{315a^3d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(39a^4Ab-31a^2Ab^3-8Ab^5+75a^5B-93a^3b^2B+18ab^4B+63a^4bC-63a^2b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{315a^3d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(88a^2Ab-4Ab^3+75a^3B+9ab^2B+126a^2bC\right)\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{315a^2d}+$$

$$\frac{2\left(49a^2A+3Ab^2+72abB+63a^2C\right)\operatorname{Cos}[c+dx]^{3/2}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{315ad}+$$

$$\frac{2(Ab+3aB)\operatorname{Cos}[c+dx]^{5/2}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{21d}+\frac{2A\operatorname{Cos}[c+dx]^{7/2}(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{9d}$$

$$\frac{1}{(b+a\operatorname{Cos}[c+dx])(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])}\operatorname{Cos}[c+dx]^{7/2}(a+b\operatorname{Sec}[c+dx])^{3/2}$$

$$\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\left(-\frac{4\left(147a^4A+33a^2Ab^2+8Ab^4+246a^3bB-18ab^3B+189a^4C+63a^2b^2C\right)\operatorname{Cot}[c]}{315a^3d}+\right.$$

$$\frac{\left(402a^2Ab-16Ab^3+345a^3B+36ab^2B+504a^2bC\right)\operatorname{Cos}[dx]\operatorname{Sin}[c]}{315a^2d}+$$

$$\frac{\left(133a^2A+6Ab^2+144abB+126a^2C\right)\operatorname{Cos}[2dx]\operatorname{Sin}[2c]}{315ad}+\frac{(10Ab+9aB)\operatorname{Cos}[3dx]\operatorname{Sin}[3c]}{63d}+$$

$$\frac{aA\operatorname{Cos}[4dx]\operatorname{Sin}[4c]}{18d}+\frac{\left(402a^2Ab-16Ab^3+345a^3B+36ab^2B+504a^2bC\right)\operatorname{Cos}[c]\operatorname{Sin}[dx]}{315a^2d}+$$

$$\left.\frac{\left(133a^2A+6Ab^2+144abB+126a^2C\right)\operatorname{Cos}[2c]\operatorname{Sin}[2dx]}{315ad}+\frac{(10Ab+9aB)\operatorname{Cos}[3c]\operatorname{Sin}[3dx]}{63d}+\frac{aA\operatorname{Cos}[4c]\operatorname{Sin}[4dx]}{18d}\right)+$$

$$\frac{1}{315a^2(b+a\operatorname{Cos}[c+dx])^{3/2}(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])}$$

$$\operatorname{Cos}[c+dx]^{7/2}\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right](a+b\operatorname{Sec}[c+dx])^{3/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\left(-\left(372a^2Ab\operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right]$$

$$\frac{\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\,\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}}{\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\,\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-\left(4\,A\,b^3\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]\right)}$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(150\,a^3\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(306\,a\,b^2\,B\,\mathrm{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Big]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(504\,a^2\,b\,C\,\mathrm{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{d}\,147\,a^4\,A\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\ \text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,33\,a^2\,A\,b^2\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,8\,A\,b^4\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,246\,a^3\,b\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,18\,a\,b^3\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}189\,a^4\,C\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,63\,a^2\,b^2\,C\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 9,\ 0\right\}$$

$$\frac{2\,(a+b)\left(82\,a^2\,A\,b-6\,A\,b^3+63\,a^3\,B+21\,a\,b^2\,B+140\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^4\,A-31\,a^2\,A\,b^2+6\,A\,b^4+21\,a^3\,b\,B-21\,a\,b^3\,B+35\,a^4\,C-35\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^2\,A+3\,A\,b^2+42\,a\,b\,B+35\,a^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,a\,d}+$$

$$\frac{2\,(3\,A\,b+7\,a\,B)\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{7\,d}$$

$$\left(\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{4\,\left(82\,a^2\,A\,b-6\,A\,b^3+63\,a^3\,B+21\,a\,b^2\,B+140\,a^2\,b\,C\right)\,\text{Cot}[c]}{105\,a^2\,d}+\frac{\left(115\,a^2\,A+12\,A\,b^2+168\,a\,b\,B+140\,a^2\,C\right)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{105\,a\,d}+\right.$$

$$\frac{2\,(8\,A\,b+7\,a\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{35\,d}+\frac{a\,A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,d}+\frac{\left(115\,a^2\,A+12\,A\,b^2+168\,a\,b\,B+140\,a^2\,C\right)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{105\,a\,d}+$$

$$\left.\left.\frac{2\,(8\,A\,b+7\,a\,B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{35\,d}+\frac{a\,A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,d}\right)\right)\Big/$$

$$\frac{1}{105\,a\,(b+a\,\text{Cos}[c+d\,x])^{3/2}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])}\,((b+a\,\text{Cos}[c+d\,x])\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x]))-$$

$$\text{Cos}[c+d\,x]^{7/2}\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(50\,a^2\,A\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\,\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(102\,A\,b^2\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(168\,a\,b\,B\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(70\,a^2\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(210\,b^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\frac{1}{d}\,82\,a^2\,A\,b\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,6\,A\,b^3\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,63\,a^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,21\,a\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,140\,a^2\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\,\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\,\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Timed out after 60 seconds:

$$\left\{\mathrm{Cos}[c+d\,x]^{5/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 11,\ 0\right\}$$

$$\frac{2\,(a+b)\left(9\,a^2\,A+3\,A\,b^2+20\,a\,b\,B+15\,a^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\left(3\,a^2\,A\,b-3\,A\,b^3+5\,a^3\,B-5\,a\,b^2\,B+15\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{15\,a\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^2\,C\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,(3\,A\,b+5\,a\,B)\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{15\,d}+\frac{2\,A\,\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{5\,d}$$

???

Timed out after 60 seconds:

$$\left\{\mathrm{Cos}[c+d\,x]^{3/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right),\ x,\ 11,\ 0\right\}$$

$$\frac{(a+b)\,(8\,A\,b+6\,a\,B-3\,b\,C)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,a^2\,A-2\,A\,b^2+6\,a\,b\,B+6\,a^2\,C+3\,b^2\,C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{b\,(2\,b\,B+3\,a\,C)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\,\mathrm{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\mathrm{Cos}[c+d\,x]}\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}-$$

$$\frac{b\,(2\,A-3\,C)\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\,\mathrm{Sin}[c+d\,x]}{3\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}}+\frac{2\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\,(a+b\,\mathrm{Sec}[c+d\,x])^{3/2}\,\mathrm{Sin}[c+d\,x]}{3\,d}$$

???

Timed out after 60 seconds:

$$\left\{\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 11,\ 0\right\}$$

$$\frac{(a+b)\,(8\,a\,A-4\,b\,B-5\,a\,C)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,a\,A\,b+8\,a^2\,B+4\,b^2\,B+7\,a\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(8\,A\,b^2+12\,a\,b\,B+3\,a^2\,C+4\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(4\,b\,B+3\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{2\,d\,\sqrt{\text{Cos}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{\text{Cos}[c+d\,x]}},\ x,\ 12,\ 0\right\}$$

$$-\frac{(a+b)\,\left(24\,A\,b^2+30\,a\,b\,B+3\,a^2\,C+16\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{24\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^2\,A+24\,A\,b^2+42\,a\,b\,B+17\,a^2\,C+16\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{24\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(24\,a\,A\,b^2+6\,a^2\,b\,B+8\,b^3\,B-a^3\,C+12\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{8\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,b\,B+a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{\left(24\,A\,b^2+30\,a\,b\,B+3\,a^2\,C+16\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{24\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{3\,d\,\text{Cos}[c+d\,x]^{3/2}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{(a+b\,\text{Sec}[c+d\,x])^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\text{Cos}[c+d\,x]^{3/2}},\ x,\ 13,\ 0\right\}$$

$$-\frac{(a+b)\left(240\,a\,A\,b^2+24\,a^2\,b\,B+128\,b^3\,B-9\,a^3\,C+156\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{192\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(336\,a\,A\,b^2+136\,a^2\,b\,B+128\,b^3\,B-3\,a^3\,C+228\,a\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{192\,b\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(48\,a^2\,A\,b^2+64\,A\,b^4-8\,a^3\,b\,B+96\,a\,b^3\,B+3\,a^4\,C+24\,a^2\,b^2\,C+48\,b^4\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticPi}\left[2,\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]}{64\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(8\,b\,B+3\,a\,C)\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{24\,d\,\text{Cos}[c+d\,x]^{5/2}}+\frac{\left(48\,A\,b^2+56\,a\,b\,B+3\,a^2\,C+36\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{96\,b\,d\,\text{Cos}[c+d\,x]^{3/2}}+$$

$$\frac{\left(240\,a\,A\,b^2+24\,a^2\,b\,B+128\,b^3\,B-9\,a^3\,C+156\,a\,b^2\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{192\,b^2\,d\,\sqrt{\text{Cos}[c+d\,x]}}+\frac{C\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{4\,d\,\text{Cos}[c+d\,x]^{5/2}}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{11/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\,x,\,11,\,0\right\}$$

$$\left(2\,(a+b)\left(3705\,a^4\,A\,b+255\,a^2\,A\,b^3+40\,A\,b^5+1617\,a^5\,B+3069\,a^3\,b^2\,B-110\,a\,b^4\,B+4785\,a^4\,b\,C+495\,a^2\,b^3\,C\right)\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\right)\Big/\left(3465\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\left(2\left(675\,a^6\,A-390\,a^4\,A\,b^2-245\,a^2\,A\,b^4-40\,A\,b^6+1254\,a^5\,b\,B-1364\,a^3\,b^3\,B+110\,a\,b^5\,B+825\,a^6\,C-330\,a^4\,b^2\,C-495\,a^2\,b^4\,C\right)\right.$$

$$\left.\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\;\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\frac{2\,a}{a+b}\right]\right)\Big/\left(3465\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{2\left(675\,a^4\,A+1025\,a^2\,A\,b^2-20\,A\,b^4+1793\,a^3\,b\,B+55\,a\,b^3\,B+825\,a^4\,C+1485\,a^2\,b^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3465\,a^2\,d}+$$

$$\frac{2\left(1145\,a^2\,A\,b+15\,A\,b^3+539\,a^3\,B+825\,a\,b^2\,B+1485\,a^2\,b\,C\right)\text{Cos}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{3465\,a\,d}+$$

$$\frac{2\left(27\,a^2\,A+5\,A\,b^2+44\,a\,b\,B+33\,a^2\,C\right)\text{Cos}[c+d\,x]^{5/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}\;\text{Sin}[c+d\,x]}{231\,d}+$$

$$\frac{2\,(5\,A\,b+11\,a\,B)\,\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{99\,d}+$$

$$\frac{2\,A\,\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{11\,d}$$

$$\frac{1}{(b+a\,\mathrm{Cos}[c+d\,x])^2\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Cos}[c+d\,x]^{9/2}\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}$$

$$\left(-\frac{4\,\left(3705\,a^4\,A\,b+255\,a^2\,A\,b^3+40\,A\,b^5+1617\,a^5\,B+3069\,a^3\,b^2\,B-110\,a\,b^4\,B+4785\,a^4\,b\,C+495\,a^2\,b^3\,C\right)\,\mathrm{Cot}[c]}{3465\,a^3\,d}+\right.$$

$$\frac{\left(6525\,a^4\,A+9330\,a^2\,A\,b^2-160\,A\,b^4+16\,434\,a^3\,b\,B+440\,a\,b^3\,B+7590\,a^4\,C+11\,880\,a^2\,b^2\,C\right)\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{6930\,a^2\,d}+$$

$$\frac{\left(3095\,a^2\,A\,b+30\,A\,b^3+1463\,a^3\,B+1650\,a\,b^2\,B+2970\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,d\,x]\,\mathrm{Sin}[2\,c]}{3465\,a\,d}+$$

$$\frac{\left(513\,a^2\,A+452\,A\,b^2+836\,a\,b\,B+396\,a^2\,C\right)\,\mathrm{Cos}[3\,d\,x]\,\mathrm{Sin}[3\,c]}{2772\,d}+$$

$$\frac{a\,(23\,A\,b+11\,a\,B)\,\mathrm{Cos}[4\,d\,x]\,\mathrm{Sin}[4\,c]}{198\,d}+\frac{a^2\,A\,\mathrm{Cos}[5\,d\,x]\,\mathrm{Sin}[5\,c]}{44\,d}+$$

$$\frac{\left(6525\,a^4\,A+9330\,a^2\,A\,b^2-160\,A\,b^4+16\,434\,a^3\,b\,B+440\,a\,b^3\,B+7590\,a^4\,C+11\,880\,a^2\,b^2\,C\right)\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{6930\,a^2\,d}+$$

$$\frac{\left(3095\,a^2\,A\,b+30\,A\,b^3+1463\,a^3\,B+1650\,a\,b^2\,B+2970\,a^2\,b\,C\right)\,\mathrm{Cos}[2\,c]\,\mathrm{Sin}[2\,d\,x]}{3465\,a\,d}+$$

$$\frac{\left(513\,a^2\,A+452\,A\,b^2+836\,a\,b\,B+396\,a^2\,C\right)\,\mathrm{Cos}[3\,c]\,\mathrm{Sin}[3\,d\,x]}{2772\,d}+$$

$$\left.\frac{a\,(23\,A\,b+11\,a\,B)\,\mathrm{Cos}[4\,c]\,\mathrm{Sin}[4\,d\,x]}{198\,d}+\frac{a^2\,A\,\mathrm{Cos}[5\,c]\,\mathrm{Sin}[5\,d\,x]}{44\,d}\right)-$$

$$\frac{1}{3465\,a^2\,(b+a\,\mathrm{Cos}[c+d\,x])^{5/2}\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\mathrm{Cos}[c+d\,x]^{9/2}\,\mathrm{Csc}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,(a+b\,\mathrm{Sec}[c+d\,x])^{5/2}\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)}$$

$$\left(\left(1350\,a^4\,A\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(6630\,a^2\,A\,b^2\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(20\,A\,b^4\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(5742\, a^3\, b\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(3410\, a\, b^3\, B\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\;\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(1650\,a^4\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\;\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(8910\,a^2\,b^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\frac{1}{d}\,3705\,a^4\,A\,b\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,255\,a^2\,A\,b^3\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,40\,A\,b^5\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,1617\,a^5\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,3069\,a^3\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,110\,a\,b^4\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,4785\,a^4\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,495\,a^2\,b^3\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\text{Cos}[c+d\,x]^{9/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 10,\ 0\right\}$$

$$\frac{2(a+b)\left(147a^4A+279a^2Ab^2-10Ab^4+435a^3bB+45ab^3B+189a^4C+483a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{315a^2d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\left(2\left(114a^4Ab-124a^2Ab^3+10Ab^5+75a^5B-30a^3b^2B-45ab^4B+168a^4bC-168a^2b^3C\right)\right.$$

$$\left.\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]\right)\Big/\left(315a^2d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\right)+$$

$$\frac{2\left(163a^2Ab+5Ab^3+75a^3B+135ab^2B+231a^2bC\right)\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{315ad}+$$

$$\frac{2\left(49a^2A+15Ab^2+90abB+63a^2C\right)\operatorname{Cos}[c+dx]^{3/2}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{315d}+$$

$$\frac{2(5Ab+9aB)\operatorname{Cos}[c+dx]^{5/2}(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{63d}+\frac{2A\operatorname{Cos}[c+dx]^{7/2}(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{9d}$$

$$\frac{1}{(b+a\operatorname{Cos}[c+dx])^2(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])}\operatorname{Cos}[c+dx]^{9/2}(a+b\operatorname{Sec}[c+dx])^{5/2}$$

$$\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)\left(-\frac{4\left(147a^4A+279a^2Ab^2-10Ab^4+435a^3bB+45ab^3B+189a^4C+483a^2b^2C\right)\operatorname{Cot}[c]}{315a^2d}+\right.$$

$$\frac{\left(747a^2Ab+20Ab^3+345a^3B+540ab^2B+924a^2bC\right)\operatorname{Cos}[dx]\operatorname{Sin}[c]}{315ad}+$$

$$\frac{\left(133a^2A+150Ab^2+270abB+126a^2C\right)\operatorname{Cos}[2dx]\operatorname{Sin}[2c]}{315d}+\frac{a(19Ab+9aB)\operatorname{Cos}[3dx]\operatorname{Sin}[3c]}{63d}+$$

$$\frac{a^2A\operatorname{Cos}[4dx]\operatorname{Sin}[4c]}{18d}+\frac{\left(747a^2Ab+20Ab^3+345a^3B+540ab^2B+924a^2bC\right)\operatorname{Cos}[c]\operatorname{Sin}[dx]}{315ad}+$$

$$\frac{\left(133a^2A+150Ab^2+270abB+126a^2C\right)\operatorname{Cos}[2c]\operatorname{Sin}[2dx]}{315d}+$$

$$\left.\frac{a(19Ab+9aB)\operatorname{Cos}[3c]\operatorname{Sin}[3dx]}{63d}+\frac{a^2A\operatorname{Cos}[4c]\operatorname{Sin}[4dx]}{18d}\right)+$$

$$\frac{1}{315a(b+a\operatorname{Cos}[c+dx])^{5/2}(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])}$$

$$\operatorname{Cos}[c+dx]^{9/2}\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right](a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\left(-\left(522a^2Ab\operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right.,\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(310\,A\,b^3\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(150\,a^3\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(810\,a\,b^2\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(714\, a^2\, b\, C\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(630\, b^3\, C\, \text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{d}\,147\,a^4\,A\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,279\,a^2\,A\,b^2\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,10\,A\,b^4\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,435\,a^3\,b\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}45\,a\,b^3\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}189\,a^4\,C\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,483\,a^2\,b^2\,C\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Timed out after 60 seconds:

$$\left\{\text{Cos}[c+d\,x]^{7/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 12,\ 0\right\}$$

$$\frac{2\,(a+b)\left(145\,a^2\,A\,b+15\,A\,b^3+63\,a^3\,B+161\,a\,b^2\,B+245\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^4\,A-10\,a^2\,A\,b^2-15\,A\,b^4+56\,a^3\,b\,B-56\,a\,b^3\,B+35\,a^4\,C+70\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{105\,a\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,b^3\,C\,\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(25\,a^2\,A+15\,A\,b^2+56\,a\,b\,B+35\,a^2\,C\right)\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{105\,d}+$$

$$\frac{2\,(5\,A\,b+7\,a\,B)\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\,\text{Sin}[c+d\,x]}{35\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\,\text{Sin}[c+d\,x]}{7\,d}$$

???

Timed out after 60 seconds:

$$\left\{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right),\ x,\ 12,\ 0\right\}$$

$$\frac{(a+b)\left(18a^2A+46Ab^2+70abB+30a^2C-15b^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{15d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\left(16a^2Ab-16Ab^3+10a^3B+20ab^2B+60a^2bC+15b^3C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{15d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{b^2(2bB+5aC)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}-\frac{b(16Ab+10aB-15bC)\sqrt{a+b\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{15d\sqrt{\mathrm{Cos}[c+dx]}}+$$

$$\frac{2(Ab+aB)\sqrt{\mathrm{Cos}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{3d}+\frac{2A\,\mathrm{Cos}[c+dx]^{3/2}(a+b\,\mathrm{Sec}[c+dx])^{5/2}\,\mathrm{Sin}[c+dx]}{5d}$$

???

Timed out after 60 seconds:

$$\left\{\mathrm{Cos}[c+dx]^{3/2}(a+b\,\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),x,12,0\right\}$$

$$\frac{(a+b)\left(56aAb+24a^2B-12b^2B-27abC\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{12d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{\left(8a^3A+16aAb^2+48a^2bB+12b^3B+24a^3C+33ab^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{12d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}+$$

$$\frac{b\left(8Ab^2+20abB+15a^2C+4b^2C\right)\sqrt{\frac{b+a\,\mathrm{Cos}[c+dx]}{a+b}}\,\mathrm{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{4d\sqrt{\mathrm{Cos}[c+dx]}\sqrt{a+b\,\mathrm{Sec}[c+dx]}}-$$

$$\frac{b(8aA-12bB-21aC)\sqrt{a+b\,\mathrm{Sec}[c+dx]}\,\mathrm{Sin}[c+dx]}{12d\sqrt{\mathrm{Cos}[c+dx]}}-$$

$$\frac{b(4A-3C)(a+b\,\mathrm{Sec}[c+dx])^{3/2}\,\mathrm{Sin}[c+dx]}{6d\sqrt{\mathrm{Cos}[c+dx]}}+\frac{2A\sqrt{\mathrm{Cos}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}\,\mathrm{Sin}[c+dx]}{3d}$$

???

Timed out after 60 seconds:

$$\left\{\sqrt{\mathrm{Cos}[c+dx]}\,(a+b\,\mathrm{Sec}[c+dx])^{5/2}\left(A+B\,\mathrm{Sec}[c+dx]+C\,\mathrm{Sec}[c+dx]^2\right),x,12,0\right\}$$

$$\frac{(a+b)\left(48a^2A-24Ab^2-54abB-33a^2C-16b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{24d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(96a^2Ab+24Ab^3+48a^3B+66ab^2B+59a^2bC+16b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{24d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(40aAb^2+30a^2bB+8b^3B+5a^3C+20ab^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{8d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(24Ab^2+42abB+15a^2C+16b^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{24d\sqrt{\operatorname{Cos}[c+dx]}}+$$

$$\frac{(6bB+5aC)(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{12d\sqrt{\operatorname{Cos}[c+dx]}}+\frac{C(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{3d\sqrt{\operatorname{Cos}[c+dx]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\sqrt{\operatorname{Cos}[c+dx]}},x,13,0\right\}$$

$$-\frac{(a+b)\left(432aAb^2+264a^2bB+128b^3B+15a^3C+284ab^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{192bd\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(384a^3A+528aAb^2+472a^2bB+128b^3B+133a^3C+356ab^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{192d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(240a^2Ab^2+64Ab^4+40a^3bB+160ab^3B-5a^4C+120a^2b^2C+48b^4C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticPi}\left[2,\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{64bd\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{\left(16Ab^2+24abB+5a^2C+12b^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{32d\operatorname{Cos}[c+dx]^{3/2}}+$$

$$\frac{\left(432aAb^2+264a^2bB+128b^3B+15a^3C+284ab^2C\right)\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{192bd\sqrt{\operatorname{Cos}[c+dx]}}+$$

$$\frac{(8bB+5aC)(a+b\operatorname{Sec}[c+dx])^{3/2}\operatorname{Sin}[c+dx]}{24d\operatorname{Cos}[c+dx]^{3/2}}+\frac{C(a+b\operatorname{Sec}[c+dx])^{5/2}\operatorname{Sin}[c+dx]}{4d\operatorname{Cos}[c+dx]^{3/2}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{(a+b\operatorname{Sec}[c+dx])^{5/2}\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}{\operatorname{Cos}[c+dx]^{3/2}},x,14,0\right\}$$

$$-\left((a+b)\left(2640 a^2 A b^2+1280 A b^4+150 a^3 b B+2840 a b^3 B-45 a^4 C+1692 a^2 b^2 C+1024 b^4 C\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\right)\Big/\left(1920 b^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\frac{\left(4720 a^2 A b^2+1280 A b^4+1330 a^3 b B+3560 a b^3 B-15 a^4 C+3236 a^2 b^2 C+1024 b^4 C\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{1920 b d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\left(\left(80 a^3 A b^2+320 a A b^4-10 a^4 b B+240 a^2 b^3 B+96 b^5 B+3 a^5 C+40 a^3 b^2 C+240 a b^4 C\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticPi}\left[2,\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]\right)\Big/\left(128 b^2 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}\right)+$$

$$\frac{\left(80 A b^2+110 a b B+15 a^2 C+64 b^2 C\right)\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{240 d \text{Cos}[c+d x]^{5/2}}+$$

$$\frac{\left(1040 a A b^2+590 a^2 b B+360 b^3 B+15 a^3 C+772 a b^2 C\right)\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{960 b d \text{Cos}[c+d x]^{3/2}}+$$

$$\frac{\left(2640 a^2 A b^2+1280 A b^4+150 a^3 b B+2840 a b^3 B-45 a^4 C+1692 a^2 b^2 C+1024 b^4 C\right)\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{1920 b^2 d\sqrt{\text{Cos}[c+d x]}}+$$

$$\frac{(2 b B+a C)(a+b \text{Sec}[c+d x])^{3/2}\,\text{Sin}[c+d x]}{8 d \text{Cos}[c+d x]^{5/2}}+\frac{C(a+b \text{Sec}[c+d x])^{5/2}\,\text{Sin}[c+d x]}{5 d \text{Cos}[c+d x]^{5/2}}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d x]^{7/2}\left(A+B \text{Sec}[c+d x]+C \text{Sec}[c+d x]^2\right)}{\sqrt{a+b \text{Sec}[c+d x]}},x,9,0\right\}$$

$$-\frac{2(a+b)\left(44 a^2 A b+48 A b^3-63 a^3 B-56 a b^2 B+70 a^2 b C\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{105 a^4 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(25 a^4 A+32 a^2 A b^2+48 A b^4-49 a^3 b B-56 a b^3 B+35 a^4 C+70 a^2 b^2 C\right)\sqrt{\frac{b+a \text{Cos}[c+d x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d x),\frac{2 a}{a+b}\right]}{105 a^4 d\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}}+$$

$$\frac{2\left(25 a^2 A+24 A b^2-28 a b B+35 a^2 C\right)\sqrt{\text{Cos}[c+d x]}\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{105 a^3 d}-$$

$$\frac{2(6 A b-7 a B)\text{Cos}[c+d x]^{3/2}\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{35 a^2 d}+\frac{2 A \text{Cos}[c+d x]^{5/2}\sqrt{a+b \text{Sec}[c+d x]}\,\text{Sin}[c+d x]}{7 a d}$$

$$\left(\text{Cos}[c+d\,x]^{3/2}\,(b+a\,\text{Cos}[c+d\,x])\right.$$

$$\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{4\left(-44\,a^2\,A\,b-48\,A\,b^3+63\,a^3\,B+56\,a\,b^2\,B-70\,a^2\,b\,C\right)\text{Cot}[c]}{105\,a^4\,d}+\right.$$

$$\frac{\left(115\,a^2\,A+96\,A\,b^2-112\,a\,b\,B+140\,a^2\,C\right)\text{Cos}[d\,x]\,\text{Sin}[c]}{105\,a^3\,d}+\frac{2\,(-6\,A\,b+7\,a\,B)\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{35\,a^2\,d}+\frac{A\,\text{Cos}[3\,d\,x]\,\text{Sin}[3\,c]}{7\,a\,d}+$$

$$\left.\left.\frac{\left(115\,a^2\,A+96\,A\,b^2-112\,a\,b\,B+140\,a^2\,C\right)\text{Cos}[c]\,\text{Sin}[d\,x]}{105\,a^3\,d}+\frac{2\,(-6\,A\,b+7\,a\,B)\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{35\,a^2\,d}+\frac{A\,\text{Cos}[3\,c]\,\text{Sin}[3\,d\,x]}{7\,a\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{1}{105\,a^3\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{3/2}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\;\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(50\,a^2\,A\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(24\,A\,b^2\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(28\,a\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(70\,a^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)+$$

$$\frac{1}{d}\,44\,a^2\,A\,b\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Big]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,48\,A\,b^3\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}63\,a^3\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,56\,a\,b^2\,B\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,70\,a^2\,b\,C\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{5/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\,(a+b)\left(9\,a^2\,A+8\,A\,b^2-10\,a\,b\,B+15\,a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{15\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(7\,a^2\,A\,b+8\,A\,b^3-5\,a^3\,B-10\,a\,b^2\,B+15\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{15\,a^3\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(4\,A\,b-5\,a\,B)\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{15\,a^2\,d}+\frac{2\,A\,\text{Cos}[c+d\,x]^{3/2}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{5\,a\,d}$$

$$\left(\text{Cos}[c+d\,x]^{3/2}\,(b+a\,\text{Cos}[c+d\,x])\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{4\left(9\,a^2\,A+8\,A\,b^2-10\,a\,b\,B+15\,a^2\,C\right)\,\text{Cot}[c]}{15\,a^3\,d}+\frac{4\,(-4\,A\,b+5\,a\,B)\,\text{Cos}[d\,x]\,\text{Sin}[c]}{15\,a^2\,d}+\right.$$

$$\left.\left.\frac{2\,A\,\text{Cos}[2\,d\,x]\,\text{Sin}[2\,c]}{5\,a\,d}+\frac{4\,(-4\,A\,b+5\,a\,B)\,\text{Cos}[c]\,\text{Sin}[d\,x]}{15\,a^2\,d}+\frac{2\,A\,\text{Cos}[2\,c]\,\text{Sin}[2\,d\,x]}{5\,a\,d}\right)\right)\Big/$$

$$\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\text{Sec}[c+d\,x]}\right)+$$

$$\frac{1}{15\,a^2\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\text{Cos}[c+d\,x]^{3/2}\,\sqrt{b+a\,\text{Cos}[c+d\,x]}\,\text{Csc}\left[\frac{c}{2}\right]\,\text{Sec}\left[\frac{c}{2}\right]\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(-\left(4\,A\,b\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\,\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}\,\left(1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\right/$$

$$\left(d\,\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\,\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\,\left(b-a\,\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\,\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\,-$$

$$\left(10\,a\,B\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)\,-$$

$$\frac{1}{d} 9 a^2 A \left(- \frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]] \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}} + \frac{2 a \text{Cos}[c] \left(b+a \text{Cos}[c] \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}\right)}{a^2 \text{Cos}[c]^2+a^2 \text{Sin}[c]^2}}{\sqrt{b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}}} + \right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}, -\frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}, \right.\right.$$

$$\left. -\frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(-1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}\right] \text{Sin}[d x + \text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c] \sqrt{-1 - \frac{b \text{Sec}[c]}{a \sqrt{1 + \text{Tan}[c]^2}} + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2}}}$$

$$\left.\sqrt{1 - \frac{b \text{Sec}[c]}{a \sqrt{1 + \text{Tan}[c]^2}} + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2}}}\right) \Big/$$

$$\left(\sqrt{-1 + \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]]} \sqrt{1 + \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]]} \sqrt{1 + \text{Tan}[c]^2} \right.$$

$$\sqrt{b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}}$$

$$\sqrt{1 + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(-1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1 + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right) -$$

$$\frac{1}{d} 8 A b^2 \left(- \frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]] \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}} + \frac{2 a \text{Cos}[c] \left(b+a \text{Cos}[c] \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}\right)}{a^2 \text{Cos}[c]^2+a^2 \text{Sin}[c]^2}}{\sqrt{b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}}} + \right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}, -\frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}, \right.\right.$$

$$\left. - \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(-1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}\right] \text{Sin}[d x + \text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c] \sqrt{-1 - \frac{b \text{Sec}[c]}{a \sqrt{1 + \text{Tan}[c]^2}} + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2}}}$$

$$\left.\sqrt{1 - \frac{b \text{Sec}[c]}{a \sqrt{1 + \text{Tan}[c]^2}} + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2}}}\right) \Big/$$

$$\left(\sqrt{-1 + \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]]} \sqrt{1 + \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]]} \sqrt{1 + \text{Tan}[c]^2} \right.$$

$$\sqrt{b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}}$$

$$\sqrt{1 + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(-1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left. \sqrt{1 + \frac{\text{Sec}[c] \left(b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}\right)}{a \sqrt{1 + \text{Tan}[c]^2} \left(1 - \frac{b \text{Sec}[c]}{a \sqrt{1+\text{Tan}[c]^2}}\right)}} \right) \right) +$$

$$\frac{1}{d}\,10\,a\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,15\,a^2\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 7,\ 0\right\}$$

$$-\frac{2\,(a+b)\,(2\,A\,b-3\,a\,B)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{2\,\left(a^2\,A+2\,A\,b^2-3\,a\,b\,B+3\,a^2\,C\right)\,\sqrt{\frac{b+a\,\mathrm{Cos}[c+d\,x]}{a+b}}\;\mathrm{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\,\frac{2\,a}{a+b}\right]}{3\,a^2\,d\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+\frac{2\,A\,\sqrt{\mathrm{Cos}[c+d\,x]}\;\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}\;\mathrm{Sin}[c+d\,x]}{3\,a\,d}$$

$$\frac{\mathrm{Cos}[c+d\,x]^{3/2}\,(b+a\,\mathrm{Cos}[c+d\,x])\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)\,\left(-\frac{4\,(-2\,A\,b+3\,a\,B)\,\mathrm{Cot}[c]}{3\,a^2\,d}+\frac{4\,A\,\mathrm{Cos}[d\,x]\,\mathrm{Sin}[c]}{3\,a\,d}+\frac{4\,A\,\mathrm{Cos}[c]\,\mathrm{Sin}[d\,x]}{3\,a\,d}\right)}{(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}+$$

$$\frac{1}{3\,a\,(A+2\,C+2\,B\,\mathrm{Cos}[c+d\,x]+A\,\mathrm{Cos}[2\,c+2\,d\,x])\,\sqrt{a+b\,\mathrm{Sec}[c+d\,x]}}$$

$$\mathrm{Cos}[c+d\,x]^{3/2}\,\sqrt{b+a\,\mathrm{Cos}[c+d\,x]}\;\mathrm{Csc}\left[\frac{c}{2}\right]\,\mathrm{Sec}\left[\frac{c}{2}\right]\,\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\Bigg(2\,A\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\,\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\;\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}\,\left(1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\,\sqrt{1+\mathrm{Cot}[c]^2}\;\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\,\left(b-a\,\sqrt{1+\mathrm{Cot}[c]^2}\;\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\,\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\,-$$

$$\left(6\,C\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)+$$

$$\frac{1}{d}\,2\,A\,b\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}3aB\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)$$

Timed out after 60 seconds:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{\sqrt{a+b\,\text{Sec}[c+d\,x]}},\ x,\ 9,\ 0\right\}$$

$$\frac{2 A (a+b) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{a d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} - \frac{2 (A b-a B) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{a d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{2 C \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{\sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}, x, 10, 0\right\}$$

$$-\frac{(a+b) C \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{b d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{(2 A+C) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{(2 b B-a C) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{b d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{C \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{b d \sqrt{\operatorname{Cos}[c+d x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2}{\operatorname{Cos}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]}}, x, 11, 0\right\}$$

$$-\frac{(a+b) (4 b B-3 a C) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{4 b^2 d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{(4 b B-a C) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{4 b d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{\left(8 A b^2-4 a b B+3 a^2 C+4 b^2 C\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2} (c+d x), \frac{2 a}{a+b}\right]}{4 b^2 d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}} + \frac{C \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{2 b d \operatorname{Cos}[c+d x]^{3/2}} + \frac{(4 b B-3 a C) \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{4 b^2 d \sqrt{\operatorname{Cos}[c+d x]}}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]^{5/2} \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^{3/2}}, x, 9, 0\right\}$$

$$\frac{2\left(9a^4A+24a^2Ab^2-48Ab^4-25a^3bB+40ab^3B+15a^4C-30a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{15a^4(a-b)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{2\left(12a^2Ab+48Ab^3-5a^3B-40ab^2B+30a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{15a^4d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\operatorname{Cos}[c+dx]^{3/2}\operatorname{Sin}[c+dx]}{a\left(a^2-b^2\right)d\sqrt{a+b\operatorname{Sec}[c+dx]}}-$$

$$\frac{2\left(9a^2Ab-24Ab^3-5a^3B+20ab^2B-15a^2bC\right)\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{15a^3\left(a^2-b^2\right)d}+$$

$$\frac{2\left(a^2A-6Ab^2+5abB-5a^2C\right)\operatorname{Cos}[c+dx]^{3/2}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{5a^2\left(a^2-b^2\right)d}$$

$$\frac{1}{(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])(a+b\operatorname{Sec}[c+dx])^{3/2}}$$

$$\sqrt{\operatorname{Cos}[c+dx]}(b+a\operatorname{Cos}[c+dx])^2\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{1}{15a^4\left(a^2-b^2\right)d}4\left(9a^4A+24a^2Ab^2-63Ab^4-25a^3bB+55ab^3B+15a^4C-45a^2b^2C+9a^4A\operatorname{Cos}[2c]+24a^2Ab^2\operatorname{Cos}[2c]-\right.$$

$$\left.33Ab^4\operatorname{Cos}[2c]-25a^3bB\operatorname{Cos}[2c]+25ab^3B\operatorname{Cos}[2c]+15a^4C\operatorname{Cos}[2c]-15a^2b^2C\operatorname{Cos}[2c]\right)\operatorname{Csc}[2c]+$$

$$\frac{4(-9Ab+5aB)\operatorname{Cos}[dx]\operatorname{Sin}[c]}{15a^3d}+\frac{2A\operatorname{Cos}[2dx]\operatorname{Sin}[2c]}{5a^2d}+\frac{4(-9Ab+5aB)\operatorname{Cos}[c]\operatorname{Sin}[dx]}{15a^3d}-$$

$$\frac{4\operatorname{Sec}[c]\left(Ab^5\operatorname{Sin}[c]-ab^4B\operatorname{Sin}[c]+a^2b^3C\operatorname{Sin}[c]-aAb^4\operatorname{Sin}[dx]+a^2b^3B\operatorname{Sin}[dx]-a^3b^2C\operatorname{Sin}[dx]\right)}{a^4\left(a^2-b^2\right)d(b+a\operatorname{Cos}[c+dx])}+$$

$$\frac{2A\operatorname{Cos}[2c]\operatorname{Sin}[2dx]}{5a^2d}\Bigg)+$$

$$\Bigg(\sqrt{\operatorname{Cos}[c+dx]}(b+a\operatorname{Cos}[c+dx])^{3/2}\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right]\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(\Bigg(6a^2Ab\operatorname{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(24\,A\,b^3\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(10\,a^3\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(20\,a\,b^2\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(30\,a^2\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,9\,a^4\,A\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,24\,a^2\,A\,b^2\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,48\,A\,b^4\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,25\,a^3\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,40\,a\,b^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,15\,a^4\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,30\,a^2\,b^2\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)\Bigg/$$

$$\left(15\,a^3\,(a-b)\,(a+b)\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 8,\ 0\right\}$$

$$-\frac{2\left(5a^2Ab-8Ab^3-3a^3B+6ab^2B-3a^2bC\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{3a^3(a-b)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(a^2A+8Ab^2-6abB+3a^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{3a^3d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\operatorname{Cos}[c+dx]}\operatorname{Sin}[c+dx]}{a\left(a^2-b^2\right)d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(a^2A-4Ab^2+3abB-3a^2C\right)\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)d}$$

$$\Bigg(\sqrt{\operatorname{Cos}[c+dx]}(b+a\operatorname{Cos}[c+dx])^2\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(-\frac{1}{3a^3\left(a^2-b^2\right)d}4\left(-5a^2Ab+11Ab^3+3a^3B-9ab^2B+6a^2bC-5a^2Ab\operatorname{Cos}[2c]+5Ab^3\operatorname{Cos}[2c]+\right.$$

$$\left.3a^3B\operatorname{Cos}[2c]-3ab^2B\operatorname{Cos}[2c]\right)\operatorname{Csc}[2c]+\frac{4A\operatorname{Cos}[dx]\operatorname{Sin}[c]}{3a^2d}+\frac{4A\operatorname{Cos}[c]\operatorname{Sin}[dx]}{3a^2d}+$$

$$\frac{4\operatorname{Sec}[c]\left(Ab^4\operatorname{Sin}[c]-ab^3B\operatorname{Sin}[c]+a^2b^2C\operatorname{Sin}[c]-aAb^3\operatorname{Sin}[dx]+a^2b^2B\operatorname{Sin}[dx]-a^3bC\operatorname{Sin}[dx]\right)}{a^3\left(a^2-b^2\right)d(b+a\operatorname{Cos}[c+dx])}\Bigg)\Bigg)\Big/$$

$$\left((A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])(a+b\operatorname{Sec}[c+dx])^{3/2}\right)-$$

$$\Bigg(\sqrt{\operatorname{Cos}[c+dx]}(b+a\operatorname{Cos}[c+dx])^{3/2}\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right]\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(\Bigg(2a^2A\operatorname{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)},$$

$$\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(-1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\Bigg]$$

$$\operatorname{Sec}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\sqrt{-1+\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}\sqrt{1+\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(4\,A\,b^2\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(6\,a\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(6 a^2 C \text{AppellF1}\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}, \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}\right]\right.$$

$$\text{Sec}[d x - \text{ArcTan}[\text{Cot}[c]]] \sqrt{-1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]} \sqrt{1 + \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(-1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1 - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2} \left(1 + \frac{b \text{Csc}[c]}{a \sqrt{1+\text{Cot}[c]^2}}\right)}}\right) \Big/$$

$$\left(d \sqrt{1 + \text{Cot}[c]^2} \sqrt{-1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1 + \frac{b \text{Csc}[c]}{a \sqrt{1 + \text{Cot}[c]^2}} - \frac{\text{Csc}[c] \left(b - a \sqrt{1 + \text{Cot}[c]^2} \text{Sin}[c] \text{Sin}[d x - \text{ArcTan}[\text{Cot}[c]]]\right)}{a \sqrt{1 + \text{Cot}[c]^2}}}\right) -$$

$$\frac{1}{d} 5 a^2 A b \left(-\frac{\frac{\text{Sin}[d x+\text{ArcTan}[\text{Tan}[c]]] \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}} + \frac{2 a \text{Cos}[c] \left(b+a \text{Cos}[c] \text{Cos}[d x+\text{ArcTan}[\text{Tan}[c]]] \sqrt{1+\text{Tan}[c]^2}\right)}{a^2 \text{Cos}[c]^2+a^2 \text{Sin}[c]^2}}{\sqrt{b + a \text{Cos}[c] \text{Cos}[d x + \text{ArcTan}[\text{Tan}[c]]] \sqrt{1 + \text{Tan}[c]^2}}} + \right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,8\,A\,b^3\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,3\,a^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,6\,a\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,3\,a^2\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)\Bigg/$$

$$\left(3\,a^2\,(a-b)\,(a+b)\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 7,\ 0\right\}$$

$$\frac{2\left(a^2\,A-2\,A\,b^2+a\,b\,B-a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{a^2\,(a-b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\,(2\,A\,b-a\,B)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{a^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{a\left(a^2-b^2\right)d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\;(b+a\,\text{Cos}[c+d\,x])^2\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\right.$$

$$\left(-\frac{4\left(a^2\,A-3\,A\,b^2+2\,a\,b\,B-2\,a^2\,C+a^2\,A\,\text{Cos}[2\,c]-A\,b^2\,\text{Cos}[2\,c]\right)\text{Csc}[2\,c]}{a^2\left(a^2-b^2\right)d}-\right.$$

$$\left.\left.\frac{4\,\text{Sec}[c]\left(A\,b^3\,\text{Sin}[c]-a\,b^2\,B\,\text{Sin}[c]+a^2\,b\,C\,\text{Sin}[c]-a\,A\,b^2\,\text{Sin}[d\,x]+a^2\,b\,B\,\text{Sin}[d\,x]-a^3\,C\,\text{Sin}[d\,x]\right)}{a^2\left(a^2-b^2\right)d\,(b+a\,\text{Cos}[c+d\,x])}\right)\right)\Big/$$

$$\frac{\left((A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{3/2}\right)+1}{a\,(a-b)\,(a+b)\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}$$

$$\sqrt{\text{Cos}[c+d\,x]}\;(b+a\,\text{Cos}[c+d\,x])^{3/2}\,\text{Csc}\left[\frac{c}{2}\right]\text{Sec}\left[\frac{c}{2}\right]\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)$$

$$\left(\left(2\,A\,b\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\;\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\;\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\;\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\,-$$

$$\left(2\,a\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(2\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\frac{1}{d}a^2A\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\ \text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\ \text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\ \text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,2\,A\,b^2\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Bigg]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,a\,b\,B\Bigg(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+$$

$$\Bigg(\mathrm{AppellF1}\Bigg[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},$$

$$-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\Bigg]\,\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}a^2\,C\Bigg(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+$$

$$\Bigg(\text{AppellF1}\Big[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},$$

$$-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\Big]\,\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\Bigg)\Bigg/$$

$$\Bigg(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)$$

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 10,\ 0\right\}$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{a\,(a-b)\,b\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,A\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{a\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\,C\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{b\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{b\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}},\ x,\ 11,\ 0\right\}$$

$$-\frac{\left(2 A b^2-2 a b B+3 a^2 C-b^2 C\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{(a-b) b^2 d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}+$$

$$\frac{C \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{b d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}+\frac{(2 b B-3 a C) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticPi}\left[2, \frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{b^2 d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}-$$

$$\frac{2\left(A b^2-a b B+a^2 C\right) \operatorname{Sin}[c+d x]}{b\left(a^2-b^2\right) d \operatorname{Cos}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]}}+\frac{\left(2 A b^2-2 a b B+3 a^2 C-b^2 C\right) \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{b^2\left(a^2-b^2\right) d \sqrt{\operatorname{Cos}[c+d x]}}$$

???

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\operatorname{Cos}[c+d x]^{5/2}\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}{(a+b \operatorname{Sec}[c+d x])^{5/2}}, x, 10, 0\right\}$$

$$\left(2\left(9 a^6 A+55 a^4 A b^2-212 a^2 A b^4+128 A b^6-40 a^5 b B+140 a^3 b^3 B-80 a b^5 B+15 a^6 C-75 a^4 b^2 C+40 a^2 b^4 C\right)\right.$$

$$\left.\sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticE}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]\right) \Big/ \left(15 a^5(a-b)^2(a+b) d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}\right)-$$

$$\frac{2\left(17 a^4 A b+116 a^2 A b^3-128 A b^5-5 a^5 B-80 a^3 b^2 B+80 a b^4 B+45 a^4 b C-40 a^2 b^3 C\right) \sqrt{\frac{b+a \operatorname{Cos}[c+d x]}{a+b}} \operatorname{EllipticF}\left[\frac{1}{2}(c+d x), \frac{2 a}{a+b}\right]}{15 a^5\left(a^2-b^2\right) d \sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]}}$$

$$+\frac{2\left(A b^2-a b B+a^2 C\right) \operatorname{Cos}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{3 a\left(a^2-b^2\right) d(a+b \operatorname{Sec}[c+d x])^{3/2}}+$$

$$\frac{2\left(12 a^2 A b^2-8 A b^4-9 a^3 b B+5 a b^3 B+6 a^4 C-2 a^2 b^2 C\right) \operatorname{Cos}[c+d x]^{3/2} \operatorname{Sin}[c+d x]}{3 a^2\left(a^2-b^2\right)^2 d \sqrt{a+b \operatorname{Sec}[c+d x]}}-$$

$$\frac{1}{15 a^4\left(a^2-b^2\right)^2 d} 2\left(14 a^4 A b-98 a^2 A b^3+64 A b^5-5 a^5 B+65 a^3 b^2 B-40 a b^4 B-40 a^4 b C+20 a^2 b^3 C\right)$$

$$\sqrt{\operatorname{Cos}[c+d x]} \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]+$$

$$\frac{2\left(3 a^4 A-71 a^2 A b^2+48 A b^4+50 a^3 b B-30 a b^3 B-35 a^4 C+15 a^2 b^2 C\right) \operatorname{Cos}[c+d x]^{3/2} \sqrt{a+b \operatorname{Sec}[c+d x]} \operatorname{Sin}[c+d x]}{15 a^3\left(a^2-b^2\right)^2 d}$$

$$\frac{1}{\sqrt{\operatorname{Cos}[c+d x]}(A+2 C+2 B \operatorname{Cos}[c+d x]+A \operatorname{Cos}[2 c+2 d x])(a+b \operatorname{Sec}[c+d x])^{5/2}(b+a \operatorname{Cos}[c+d x])^3\left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)}$$

$$\left(-\frac{1}{15 a^5 \left(a^2-b^2\right)^2 d} 4 \left(9 a^6 A+55 a^4 A b^2-287 a^2 A b^4+183 A b^6-40 a^5 b B+200 a^3 b^3 B-120 a b^5 B+15 a^6 C-120 a^4 b^2 C+\right.\right.$$
$$\left.65 a^2 b^4 C+9 a^6 A \operatorname{Cos}[2 c]+55 a^4 A b^2 \operatorname{Cos}[2 c]-137 a^2 A b^4 \operatorname{Cos}[2 c]+73 A b^6 \operatorname{Cos}[2 c]-40 a^5 b B \operatorname{Cos}[2 c]+\right.$$
$$\left.80 a^3 b^3 B \operatorname{Cos}[2 c]-40 a b^5 B \operatorname{Cos}[2 c]+15 a^6 C \operatorname{Cos}[2 c]-30 a^4 b^2 C \operatorname{Cos}[2 c]+15 a^2 b^4 C \operatorname{Cos}[2 c]\right) \operatorname{Csc}[2 c]+$$
$$\frac{4 (-14 A b+5 a B) \operatorname{Cos}[d x] \operatorname{Sin}[c]}{15 a^4 d}+\frac{2 A \operatorname{Cos}[2 d x] \operatorname{Sin}[2 c]}{5 a^3 d}+\frac{4 (-14 A b+5 a B) \operatorname{Cos}[c] \operatorname{Sin}[d x]}{15 a^4 d}+$$
$$\frac{4 \operatorname{Sec}[c] \left(A b^6 \operatorname{Sin}[c]-a b^5 B \operatorname{Sin}[c]+a^2 b^4 C \operatorname{Sin}[c]-a A b^5 \operatorname{Sin}[d x]+a^2 b^4 B \operatorname{Sin}[d x]-a^3 b^3 C \operatorname{Sin}[d x]\right)}{3 a^5 \left(a^2-b^2\right) d (b+a \operatorname{Cos}[c+d x])^2}-$$
$$\frac{1}{3 a^5 \left(a^2-b^2\right)^2 d (b+a \operatorname{Cos}[c+d x])} 4 \operatorname{Sec}[c] \left(16 a^2 A b^5 \operatorname{Sin}[c]-12 A b^7 \operatorname{Sin}[c]-13 a^3 b^4 B \operatorname{Sin}[c]+\right.$$
$$9 a b^6 B \operatorname{Sin}[c]+10 a^4 b^3 C \operatorname{Sin}[c]-6 a^2 b^5 C \operatorname{Sin}[c]-15 a^3 A b^4 \operatorname{Sin}[d x]+11 a A b^6 \operatorname{Sin}[d x]+$$
$$\left.\left.12 a^4 b^3 B \operatorname{Sin}[d x]-8 a^2 b^5 B \operatorname{Sin}[d x]-9 a^5 b^2 C \operatorname{Sin}[d x]+5 a^3 b^4 C \operatorname{Sin}[d x]\right)+\frac{2 A \operatorname{Cos}[2 c] \operatorname{Sin}[2 d x]}{5 a^3 d}\right)+$$

$$\left(\left(b+a \operatorname{Cos}[c+d x]\right)^{5/2} \operatorname{Csc}\left[\frac{c}{2}\right] \operatorname{Sec}\left[\frac{c}{2}\right] \left(A+B \operatorname{Sec}[c+d x]+C \operatorname{Sec}[c+d x]^2\right)\right.$$

$$\left(\left(16 a^4 A b \operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)},\right.\right.\right.$$
$$\left.\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right]$$
$$\operatorname{Sec}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]] \sqrt{-1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]} \sqrt{1+\operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$
$$\sqrt{b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]}$$
$$\sqrt{1-\frac{\operatorname{Csc}[c] \left(b-a \sqrt{1+\operatorname{Cot}[c]^2} \operatorname{Sin}[c] \operatorname{Sin}[d x-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a \sqrt{1+\operatorname{Cot}[c]^2} \left(-1+\frac{b \operatorname{Csc}[c]}{a \sqrt{1+\operatorname{Cot}[c]^2}}\right)}}$$

$$\left(\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(88\,a^2\,A\,b^3\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left(\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\,-$$

$$\left(64\,A\,b^5\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\,\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\mathrm{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)\,-$$

$$\left(10\,a^5\,B\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(70\,a^3\,b^2\,B\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(40\,a\,b^4\,B\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(60\,a^4\,b\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(20\,a^2\,b^3\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,9\,a^6\,A\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,55\,a^4\,A\,b^2\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,212\,a^2\,A\,b^4\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,128\,A\,b^6\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,40\,a^5\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,140\,a^3\,b^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,80\,a\,b^5\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,15\,a^6\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)+$$

$$\frac{1}{d}\,75\,a^4\,b^2\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)-$$

$$\frac{1}{d}\,40\,a^2\,b^4\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)\Bigg/$$

$$\left(15\,a^4\,(a-b)^2\,(a+b)^2\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right.$$
$$\left.(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\text{Cos}[c+d\,x]^{3/2}\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 9,\ 0\right\}$$

$$-\frac{2\left(8a^4Ab-28a^2Ab^3+16Ab^5-3a^5B+15a^3b^2B-8ab^4B-6a^4bC+2a^2b^3C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticE}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{3a^4(a-b)^2(a+b)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(a^4A+16a^2Ab^2-16Ab^4-9a^3bB+8ab^3B+3a^4C-2a^2b^2C\right)\sqrt{\frac{b+a\operatorname{Cos}[c+dx]}{a+b}}\operatorname{EllipticF}\left[\frac{1}{2}(c+dx),\frac{2a}{a+b}\right]}{3a^4\left(a^2-b^2\right)d\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(Ab^2-abB+a^2C\right)\sqrt{\operatorname{Cos}[c+dx]}\operatorname{Sin}[c+dx]}{3a\left(a^2-b^2\right)d(a+b\operatorname{Sec}[c+dx])^{3/2}}+\frac{2\left(10a^2Ab^2-6Ab^4-7a^3bB+3ab^3B+4a^4C\right)\sqrt{\operatorname{Cos}[c+dx]}\operatorname{Sin}[c+dx]}{3a^2\left(a^2-b^2\right)^2d\sqrt{a+b\operatorname{Sec}[c+dx]}}+$$

$$\frac{2\left(a^4A-13a^2Ab^2+8Ab^4+8a^3bB-4ab^3B-5a^4C+a^2b^2C\right)\sqrt{\operatorname{Cos}[c+dx]}\sqrt{a+b\operatorname{Sec}[c+dx]}\operatorname{Sin}[c+dx]}{3a^3\left(a^2-b^2\right)^2d}$$

$$\frac{1}{\sqrt{\operatorname{Cos}[c+dx]}(A+2C+2B\operatorname{Cos}[c+dx]+A\operatorname{Cos}[2c+2dx])(a+b\operatorname{Sec}[c+dx])^{5/2}(b+a\operatorname{Cos}[c+dx])^3\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)}$$

$$\Bigg(-\frac{1}{3a^4\left(a^2-b^2\right)^2d}4\left(-8a^4Ab+40a^2Ab^3-24Ab^5+3a^5B-24a^3b^2B+13ab^4B+12a^4bC-4a^2b^3C-8a^4Ab\operatorname{Cos}[2c]+16a^2Ab^3\operatorname{Cos}[2c]-8Ab^5\operatorname{Cos}[2c]+3a^5B\operatorname{Cos}[2c]-6a^3b^2B\operatorname{Cos}[2c]+3ab^4B\operatorname{Cos}[2c]\right)\operatorname{Csc}[2c]+\frac{4A\operatorname{Cos}[dx]\operatorname{Sin}[c]}{3a^3d}+\frac{4A\operatorname{Cos}[c]\operatorname{Sin}[dx]}{3a^3d}-\frac{4\operatorname{Sec}[c]\left(Ab^5\operatorname{Sin}[c]-ab^4B\operatorname{Sin}[c]+a^2b^3C\operatorname{Sin}[c]-aAb^4\operatorname{Sin}[dx]+a^2b^3B\operatorname{Sin}[dx]-a^3b^2C\operatorname{Sin}[dx]\right)}{3a^4\left(a^2-b^2\right)d(b+a\operatorname{Cos}[c+dx])^2}+$$

$$\frac{1}{3a^4\left(a^2-b^2\right)^2d(b+a\operatorname{Cos}[c+dx])}4\operatorname{Sec}[c]\left(13a^2Ab^4\operatorname{Sin}[c]-9Ab^6\operatorname{Sin}[c]-10a^3b^3B\operatorname{Sin}[c]+6ab^5B\operatorname{Sin}[c]+7a^4b^2C\operatorname{Sin}[c]-3a^2b^4C\operatorname{Sin}[c]-12a^3Ab^3\operatorname{Sin}[dx]+8aAb^5\operatorname{Sin}[dx]+9a^4b^2B\operatorname{Sin}[dx]-5a^2b^4B\operatorname{Sin}[dx]-6a^5bC\operatorname{Sin}[dx]+2a^3b^3C\operatorname{Sin}[dx]\right)\Bigg)-$$

$$\Bigg((b+a\operatorname{Cos}[c+dx])^{5/2}\operatorname{Csc}\left[\frac{c}{2}\right]\operatorname{Sec}\left[\frac{c}{2}\right]\left(A+B\operatorname{Sec}[c+dx]+C\operatorname{Sec}[c+dx]^2\right)$$

$$\Bigg(\Bigg(2a^4A\operatorname{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\operatorname{Csc}[c]\left(b-a\sqrt{1+\operatorname{Cot}[c]^2}\operatorname{Sin}[c]\operatorname{Sin}[dx-\operatorname{ArcTan}[\operatorname{Cot}[c]]]\right)}{a\sqrt{1+\operatorname{Cot}[c]^2}\left(1+\frac{b\operatorname{Csc}[c]}{a\sqrt{1+\operatorname{Cot}[c]^2}}\right)}\right.,$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\ \sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(14\,a^2\,A\,b^2\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\ \sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\ \text{Sin}[c]\ \text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(8\,A\,b^4\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(12\,a^3\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(4\,a\,b^3\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(6\,a^4\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(2\,a^2\,b^2\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,8\,a^4\,A\,b\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\frac{1}{d}\,28\,a^2\,A\,b^3\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,16\,A\,b^5\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\frac{1}{d}\,3\,a^5\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,15\,a^3\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\,\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\frac{1}{d}\,8\,a\,b^4\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)+$$

$$\frac{1}{d}\,6\,a^4\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\Bigg)-$$

$$\frac{1}{d}\,2\,a^2\,b^3\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\left.\left.\left.\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\sqrt{1+\text{Tan}[c]^2}\right)}{a\,\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\,\sqrt{1+\text{Tan}[c]^2}}\right)}}\right)\right)\right)\Bigg/$$

$$\left(3\,a^3\,(a-b)^2\,(a+b)^2\,\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\right.$$
$$\left.(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{\sqrt{\text{Cos}[c+d\,x]}\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)}{(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(3\,a^4\,A-15\,a^2\,A\,b^2+8\,A\,b^4+6\,a^3\,b\,B-2\,a\,b^3\,B-3\,a^4\,C-a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a^3\,(a-b)^2\,(a+b)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(9\,a^2\,A\,b-8\,A\,b^3-3\,a^3\,B+2\,a\,b^2\,B+a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a^3\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{3\,a\,\left(a^2-b^2\right)\,d\,\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+\frac{2\left(8\,a^2\,A\,b^2-4\,A\,b^4-5\,a^3\,b\,B+a\,b^3\,B+2\,a^4\,C+2\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{3\,a^2\,\left(a^2-b^2\right)^2\,d\,\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\frac{1}{\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}}$$

$$(b+a\,\text{Cos}[c+d\,x])^3\,\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\left(-\frac{1}{3\,a^3\,\left(a^2-b^2\right)^2\,d}\right.$$

$$4\left(3\,a^4\,A-24\,a^2\,A\,b^2+13\,A\,b^4+12\,a^3\,b\,B-4\,a\,b^3\,B-6\,a^4\,C-2\,a^2\,b^2\,C+3\,a^4\,A\,\text{Cos}[2\,c]-6\,a^2\,A\,b^2\,\text{Cos}[2\,c]+3\,A\,b^4\,\text{Cos}[2\,c]\right)$$

$$\mathrm{Csc}[2c] + \frac{4\,\mathrm{Sec}[c]\left(A b^4 \mathrm{Sin}[c] - a b^3 B \mathrm{Sin}[c] + a^2 b^2 C \mathrm{Sin}[c] - a A b^3 \mathrm{Sin}[d x] + a^2 b^2 B \mathrm{Sin}[d x] - a^3 b C \mathrm{Sin}[d x]\right)}{3 a^3 \left(a^2 - b^2\right) d\,(b + a \mathrm{Cos}[c + d x])^2} -$$

$$\frac{1}{3 a^3 \left(a^2 - b^2\right)^2 d\,(b + a \mathrm{Cos}[c + d x])} 4\,\mathrm{Sec}[c]\left(10 a^2 A b^3 \mathrm{Sin}[c] - 6 A b^5 \mathrm{Sin}[c] - 7 a^3 b^2 B \mathrm{Sin}[c] + 3 a b^4 B \mathrm{Sin}[c] + 4 a^4 b C \mathrm{Sin}[c] - 9 a^3 A b^2 \mathrm{Sin}[d x] + 5 a A b^4 \mathrm{Sin}[d x] + 6 a^4 b B \mathrm{Sin}[d x] - 2 a^2 b^3 B \mathrm{Sin}[d x] - 3 a^5 C \mathrm{Sin}[d x] - a^3 b^2 C \mathrm{Sin}[d x]\right)\Bigg) +$$

$$\Bigg(\Bigg(\Bigg(\Bigg(12 a^2 A b\, \mathrm{AppellF1}\Big[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{\mathrm{Csc}[c]\left(b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1 + \mathrm{Cot}[c]^2}\left(1 + \frac{b\,\mathrm{Csc}[c]}{a\sqrt{1 + \mathrm{Cot}[c]^2}}\right)}, \frac{\mathrm{Csc}[c]\left(b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1 + \mathrm{Cot}[c]^2}\left(-1 + \frac{b\,\mathrm{Csc}[c]}{a\sqrt{1 + \mathrm{Cot}[c]^2}}\right)}\Big]$$

$$\mathrm{Sec}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1 + \mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1 + \mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1 - \frac{\mathrm{Csc}[c]\left(b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1 + \mathrm{Cot}[c]^2}\left(-1 + \frac{b\,\mathrm{Csc}[c]}{a\sqrt{1 + \mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1 - \frac{\mathrm{Csc}[c]\left(b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1 + \mathrm{Cot}[c]^2}\left(1 + \frac{b\,\mathrm{Csc}[c]}{a\sqrt{1 + \mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1 + \mathrm{Cot}[c]^2}\sqrt{-1 + \frac{b\,\mathrm{Csc}[c]}{a\sqrt{1 + \mathrm{Cot}[c]^2}} - \frac{\mathrm{Csc}[c]\left(b - a\sqrt{1 + \mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d x - \mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1 + \mathrm{Cot}[c]^2}}}$$

$$\left(\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(4\,A\,b^3\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\right]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\mathrm{Cot}[c]^2}\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\right)-$$

$$\left(6\,a^3\,B\,\mathrm{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},\right.\right.$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)-$$

$$\Bigg(2\,a\,b^2\,B\,\text{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Bigg]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\Bigg)+$$

$$\Bigg(8\,a^2\,b\,C\,\text{AppellF1}\Big[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},$$

$$\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\Big]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\frac{1}{d}\,3\,a^4\,A\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/\right.$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,15\,a^2\,A\,b^2\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,8\,A\,b^4\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,6\,a^3\,b\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,2\,a\,b^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,3\,a^4\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}a^2b^2C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(3\,a^2\,(a-b)^2\,(a+b)^2\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)$$

Valid but unnecessarily complicated antiderivative:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 8,\ 0\right\}$$

$$\frac{2\left(6\,a^2\,A\,b-2\,A\,b^3-3\,a^3\,B-a\,b^2\,B+4\,a^2\,b\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a^2\,(a-b)^2\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{2\left(3\,a^2\,A-2\,A\,b^2-a\,b\,B+a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}\,(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a^2\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}-\frac{2\left(5\,a^2\,A\,b^2-A\,b^4-2\,a^3\,b\,B-2\,a\,b^3\,B-a^4\,C+5\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{3\,a\,b\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d\,x]}\,\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

$$\Bigg((b+a\,\text{Cos}[c+d\,x])^3\left(A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2\right)\Bigg(\frac{8\left(-6\,a^2\,A\,b+2\,A\,b^3+3\,a^3\,B+a\,b^2\,B-4\,a^2\,b\,C\right)\text{Csc}[2\,c]}{3\,a^2\left(a^2-b^2\right)^2 d}-$$

$$\frac{4\,\text{Sec}[c]\left(A\,b^3\,\text{Sin}[c]-a\,b^2\,B\,\text{Sin}[c]+a^2\,b\,C\,\text{Sin}[c]-a\,A\,b^2\,\text{Sin}[d\,x]+a^2\,b\,B\,\text{Sin}[d\,x]-a^3\,C\,\text{Sin}[d\,x]\right)}{3\,a^2\left(a^2-b^2\right)d\,(b+a\,\text{Cos}[c+d\,x])^2}+$$

$$\frac{1}{3\,a^2\left(a^2-b^2\right)^2 d\,(b+a\,\text{Cos}[c+d\,x])}\,4\,\text{Sec}[c]\left(7\,a^2\,A\,b^2\,\text{Sin}[c]-3\,A\,b^4\,\text{Sin}[c]-4\,a^3\,b\,B\,\text{Sin}[c]+a^4\,C\,\text{Sin}[c]+\right.$$

$$\left.3\,a^2\,b^2\,C\,\text{Sin}[c]-6\,a^3\,A\,b\,\text{Sin}[d\,x]+2\,a\,A\,b^3\,\text{Sin}[d\,x]+3\,a^4\,B\,\text{Sin}[d\,x]+a^2\,b^2\,B\,\text{Sin}[d\,x]-4\,a^3\,b\,C\,\text{Sin}[d\,x]\right)\Bigg)\Bigg)\Bigg/$$

$$\left(\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)+$$

$$\Bigg(\left(b+a\,\mathrm{Cos}[c+d\,x]\right)^{5/2}\mathrm{Csc}\left[\frac{c}{2}\right]\mathrm{Sec}\left[\frac{c}{2}\right]\left(A+B\,\mathrm{Sec}[c+d\,x]+C\,\mathrm{Sec}[c+d\,x]^2\right)$$

$$\Bigg(-\Bigg(6\,a^2\,A\,\mathrm{AppellF1}\Bigg[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)},$$

$$\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}\Bigg]$$

$$\mathrm{Sec}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\sqrt{-1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}\sqrt{1+\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}$$

$$\sqrt{1-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}\left(1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}\right)}}\Bigg)\Bigg/$$

$$\Bigg(d\sqrt{1+\mathrm{Cot}[c]^2}\sqrt{-1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\Bigg)-$$

$$\left(2\,A\,b^2\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)+$$

$$\left(8\,a\,b\,B\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left.\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Bigg/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\,\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(2\,a^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\,\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left(\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\left.\sqrt{1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right)-$$

$$\left(6\,b^2\,C\,\text{AppellF1}\left[\frac{1}{2},\frac{1}{2},\frac{1}{2},\frac{3}{2},\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)},\right.\right.$$

$$\left.\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}\right]$$

$$\text{Sec}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\sqrt{-1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}\sqrt{1+\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]}$$

$$\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}$$

$$\left(\sqrt{1-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}\left(1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}\right)}}\right)\Big/$$

$$\left(d\sqrt{1+\text{Cot}[c]^2}\sqrt{-1+\frac{b\,\text{Csc}[c]}{a\sqrt{1+\text{Cot}[c]^2}}-\frac{\text{Csc}[c]\left(b-a\sqrt{1+\text{Cot}[c]^2}\,\text{Sin}[c]\,\text{Sin}[d\,x-\text{ArcTan}[\text{Cot}[c]]]\right)}{a\sqrt{1+\text{Cot}[c]^2}}}\right.$$

$$\sqrt{1+\frac{b\,\mathrm{Csc}[c]}{a\sqrt{1+\mathrm{Cot}[c]^2}}-\frac{\mathrm{Csc}[c]\left(b-a\sqrt{1+\mathrm{Cot}[c]^2}\,\mathrm{Sin}[c]\,\mathrm{Sin}[d\,x-\mathrm{ArcTan}[\mathrm{Cot}[c]]]\right)}{a\sqrt{1+\mathrm{Cot}[c]^2}}}\,-$$

$$\frac{1}{d}\,6\,a^2\,A\,b\left(-\frac{\frac{\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\,\mathrm{Tan}[c]}{\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{2\,a\,\mathrm{Cos}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a^2\,\mathrm{Cos}[c]^2+a^2\,\mathrm{Sin}[c]^2}}{\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}}+\right.$$

$$\left(\mathrm{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}\right]\mathrm{Sin}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]$$

$$\mathrm{Tan}[c]\sqrt{-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]}\,\sqrt{1+\mathrm{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\mathrm{Sec}[c]\left(b+a\,\mathrm{Cos}[c]\,\mathrm{Cos}[d\,x+\mathrm{ArcTan}[\mathrm{Tan}[c]]]\sqrt{1+\mathrm{Tan}[c]^2}\right)}{a\sqrt{1+\mathrm{Tan}[c]^2}\left(-1-\frac{b\,\mathrm{Sec}[c]}{a\sqrt{1+\mathrm{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,2\,A\,b^3\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,3\,a^3\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)+$$

$$\frac{1}{d}\,a\,b^2\,B\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Bigg/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)-$$

$$\frac{1}{d}\,4\,a^2\,b\,C\left(-\frac{\frac{\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\,\text{Tan}[c]}{\sqrt{1+\text{Tan}[c]^2}}+\frac{2\,a\,\text{Cos}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a^2\,\text{Cos}[c]^2+a^2\,\text{Sin}[c]^2}}{\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}}+\right.$$

$$\left(\text{AppellF1}\left[-\frac{1}{2},-\frac{1}{2},-\frac{1}{2},\frac{1}{2},-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)},\right.\right.$$

$$\left.-\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}\right]\text{Sin}[d\,x+\text{ArcTan}[\text{Tan}[c]]]$$

$$\text{Tan}[c]\sqrt{-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}$$

$$\left.\sqrt{1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}}}\right)\Big/$$

$$\left(\sqrt{-1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]}\,\sqrt{1+\text{Tan}[c]^2}\right.$$

$$\sqrt{b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(-1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}$$

$$\sqrt{1+\frac{\text{Sec}[c]\left(b+a\,\text{Cos}[c]\,\text{Cos}[d\,x+\text{ArcTan}[\text{Tan}[c]]]\sqrt{1+\text{Tan}[c]^2}\right)}{a\sqrt{1+\text{Tan}[c]^2}\left(1-\frac{b\,\text{Sec}[c]}{a\sqrt{1+\text{Tan}[c]^2}}\right)}}\Bigg)\Bigg)\Bigg)\Bigg)\Bigg/$$

$$\left(3\,a\,(a-b)^2\,(a+b)^2\sqrt{\text{Cos}[c+d\,x]}\,(A+2\,C+2\,B\,\text{Cos}[c+d\,x]+A\,\text{Cos}[2\,c+2\,d\,x])\,(a+b\,\text{Sec}[c+d\,x])^{5/2}\right)$$

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 11,\ 0\right\}$$

$$-\frac{2\left(3\,a^2\,A\,b^2+A\,b^4-4\,a\,b^3\,B-3\,a^4\,C+7\,a^2\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a\,(a-b)^2\,b^2\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,a\,b\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+\frac{2\,C\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{b^2\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\,\text{Cos}[c+d\,x]^{3/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+\frac{2\left(3\,a^2\,A\,b^2+A\,b^4-4\,a\,b^3\,B-3\,a^4\,C+7\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}$$

???

Timed out after 60 seconds:

$$\left\{\frac{A+B\,\text{Sec}[c+d\,x]+C\,\text{Sec}[c+d\,x]^2}{\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{5/2}},\ x,\ 12,\ 0\right\}$$

$$\frac{\left(8\,A\,b^4+6\,a^3\,b\,B-14\,a\,b^3\,B-15\,a^4\,C+26\,a^2\,b^2\,C-3\,b^4\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticE}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,(a-b)^2\,b^3\,(a+b)\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{\left(2\,A\,b^2-2\,a\,b\,B+5\,a^2\,C-3\,b^2\,C\right)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticF}\left[\frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{3\,b^2\left(a^2-b^2\right)d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}+$$

$$\frac{(2\,b\,B-5\,a\,C)\sqrt{\frac{b+a\,\text{Cos}[c+d\,x]}{a+b}}\,\text{EllipticPi}\left[2,\ \frac{1}{2}(c+d\,x),\ \frac{2\,a}{a+b}\right]}{b^3\,d\sqrt{\text{Cos}[c+d\,x]}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-\frac{2\left(A\,b^2-a\,b\,B+a^2\,C\right)\text{Sin}[c+d\,x]}{3\,b\left(a^2-b^2\right)d\,\text{Cos}[c+d\,x]^{5/2}\,(a+b\,\text{Sec}[c+d\,x])^{3/2}}+$$

$$\frac{2\left(a^2\,A\,b^2+3\,A\,b^4+2\,a^3\,b\,B-6\,a\,b^3\,B-5\,a^4\,C+9\,a^2\,b^2\,C\right)\text{Sin}[c+d\,x]}{3\,b^2\left(a^2-b^2\right)^2 d\,\text{Cos}[c+d\,x]^{3/2}\sqrt{a+b\,\text{Sec}[c+d\,x]}}-$$

$$\frac{\left(8\,A\,b^4+6\,a^3\,b\,B-14\,a\,b^3\,B-15\,a^4\,C+26\,a^2\,b^2\,C-3\,b^4\,C\right)\sqrt{a+b\,\text{Sec}[c+d\,x]}\,\text{Sin}[c+d\,x]}{3\,b^3\left(a^2-b^2\right)^2 d\sqrt{\text{Cos}[c+d\,x]}}$$

???