Rubi 3 Test Suite Results

Indefinite Integration Problems Involving Exponentials

Unable to integrate:

$$\left\{\frac{\text{Cos}[x]+\text{Sin}[x]}{e^{-x}+\text{Sin}[x]},\ x,\ -5,\ 5\right\}$$

$$\text{Log}[1+e^{x}\,\text{Sin}[x]]$$

$$x-\text{Int}\left[\frac{1}{1+e^{x}\,\text{Sin}[x]},\ x\right]-\text{Int}\left[\frac{\text{Cot}[x]}{1+e^{x}\,\text{Sin}[x]},\ x\right]+\text{Log}[\text{Sin}[x]]$$

Unable to integrate:

$$\left\{e^{\text{Sin}[x]}\,\text{Sec}[x]^{2}\left(x\,\text{Cos}[x]^{3}-\text{Sin}[x]\right),\ x,\ -7,\ 7\right\}$$

$$e^{\text{Sin}[x]}\,(-1+x\,\text{Cos}[x])\,\text{Sec}[x]$$

$$\text{Int}\left[e^{\text{Sin}[x]}\,x\,\text{Cos}[x],\ x\right]-\text{Subst}\left[\text{Int}\left[\frac{e^{\frac{2x}{1+x^{2}}}}{(-1+x)^{2}},\ x\right],\ x,\ \text{Tan}\left[\frac{x}{2}\right]\right]+\text{Subst}\left[\text{Int}\left[\frac{e^{\frac{2x}{1+x^{2}}}}{(1+x)^{2}},\ x\right],\ x,\ \text{Tan}\left[\frac{x}{2}\right]\right]$$

Unable to integrate:

$$\left\{e^{x^{x}}\,x^{2x}\,(1+\text{Log}[x]),\ x,\ -3,\ 3\right\}$$

$$e^{x^{x}}\,(-1+x^{x})$$

$$\text{Int}\left[e^{x^{x}}\,x^{2x},\ x\right]+\text{Subst}\left[\text{Int}\left[e^{(e^{x})^{e^{x}}+x}\,(e^{x})^{2e^{x}}\,x,\ x\right],\ x,\ \text{Log}[x]\right]$$

Unable to integrate:

$$\left\{x^{-2-\frac{1}{x}}\,(1-\text{Log}[x]),\ x,\ -3,\ 3\right\}$$

$$-x^{-1/x}$$

$$\text{Int}\left[x^{-2-\frac{1}{x}},\ x\right]-\text{Subst}\left[\text{Int}\left[(e^{x})^{-1-e^{-x}}\,x,\ x\right],\ x,\ \text{Log}[x]\right]$$