952. $y = \operatorname{arctg}\left(x + \sqrt{1 + x^2}\right).$

953. $y = \arcsin\left(\dfrac{\sin a \sin x}{1 - \cos a \cos x}\right).$

954. $y = \dfrac{1}{4\sqrt{3}}\ln\dfrac{\sqrt{x^2 + 2} - x\sqrt{3}}{\sqrt{x^2 + 2} + x\sqrt{3}} +$
$$+ \dfrac{1}{2}\operatorname{arctg}\dfrac{\sqrt{x^2 + 2}}{x}.$$

955. $y = \dfrac{1}{2\sqrt{2}}\operatorname{arctg}\dfrac{x\sqrt{2}}{\sqrt{1 + x^3}} -$
$$- \dfrac{1}{4\sqrt{2}}\ln\dfrac{\sqrt{1 + x^4} - x\sqrt{2}}{\sqrt{1 + x^4} + x\sqrt{2}}.$$

956. $y = \dfrac{x\sqrt{1 - x^2}}{1 + x^2} - \dfrac{3}{\sqrt{2}}\operatorname{arcctg}\dfrac{x\sqrt{2}}{\sqrt{1 - x^2}}.$

957. $y = \arccos(\sin x^2 - \cos x^2).$

958. $y = \arcsin(\sin x^2) + \arccos(\cos x^3).$

959. $y = e^{m\arcsin x}[\cos(m\arcsin x) + \sin(m\arcsin x)].$

960. $y = \operatorname{arctg} e^x - \ln\sqrt{\dfrac{e^{2x}}{e^{2x} + 1}}.$

960.1. $y = \sqrt{1 + \sqrt[3]{1 + \sqrt[4]{1 + x^3}}}.$

960.2. $y = \operatorname{arcctg}\dfrac{1}{\sqrt{\operatorname{ctg}\dfrac{1}{x^2}}}.$

960.3. $y = \ln^2\left(\sec 2^{\sqrt[3]{x}}\right).$

961. $y = x + x^x + x^{x^x} \quad (x > 0).$

962. $y = x^{x^a} + x^{a^x} + a^{x^x} \quad (a > 0, \ x > 0).$

963. $y = \sqrt[x]{x} \quad (x > 0).$

964. $y = (\sin x)^{\cos x} + (\cos x)^{\sin x}.$

965. $y = (\ln x)^x : x^{\ln x}.$

965.1. $y = \left[\dfrac{\arcsin(\sin^2 x)}{\arccos(\cos^2 x)}\right]^{\operatorname{arctg}^2 x}.$