$$y = e^{\sqrt{x^{2}+x+1}}$$

$$y' = e^{\sqrt{x^{2}+x+1}} \cdot (\sqrt{x^{2}+x+1})' = e^{\sqrt{x^{2}+x+1}} \cdot (\frac{1}{2}(x^{2}+x+1))' = e^{\sqrt{x^{2}+x+1}} \cdot \frac{1}{2}(x^{2}+x+1)' = e^{\sqrt{x^{2}+x+1}} \cdot \frac{1}{2}(x^{2}+x+1)' = e^{\sqrt{x^{2}+x+1}} \cdot \frac{1}{2}(x^{2}+x+1)' \cdot (2x+1) = e^{\sqrt{x^{2}+x+1}} \cdot \frac{1}{2}(x^{2}+x+1)' \cdot e^{\sqrt{x^{2}+x+1}}$$

$$= (2x+1) \cdot e^{\sqrt{x^{2}+x+1}}$$

$$= (2x+1) \cdot e^{\sqrt{x^{2}+x+1}}$$

2 Varcly lux+1 (1+ luxx+1) (x+1) (x+2)

$$\frac{3}{y} = \ln \frac{1}{x + \sqrt{x^{2} + 1}} = \frac{1}{1 + \sqrt{x^{2} + 1}} \cdot \left(\frac{1}{x + \sqrt{x^{2} + 1}}\right)^{-1} \\
= \left(x + \sqrt{x^{2} + 1}\right) \cdot \left(-1\right) \left(x + \sqrt{x^{2} + 1}\right)^{-1} \cdot \left(x + \sqrt{x^{2} + 1}\right)^{-1} \\
= \left(x + \sqrt{x^{2} + 1}\right) \cdot \left(-1\right) \left(x + \sqrt{x^{2} + 1}\right)^{-2} \cdot \left(1 + \frac{1}{2}(x^{2} + 1)^{\frac{1}{2}} \cdot (x^{2} + 1$$

$$= \frac{1}{\operatorname{ancly}} \frac{1}{\operatorname{ancly}} \frac{1}{\operatorname{cos} x} \frac{1}{2 + 2 \operatorname{cos} x} = \frac{1}{2 \operatorname{ancly}} \frac{1}{7 + \operatorname{cos} x}$$

$$= \frac{1}{2 \operatorname{ancly}} \frac{1}{7 + \operatorname{cos} x} \frac{1}{2 + 2 \operatorname{cos} x} = \frac{1}{2 \operatorname{ancly}} \frac{1}{7 + \operatorname{cos} x}$$

$$= \frac{1}{2 \operatorname{ancly}} \frac{1}{7 + \operatorname{cos} x}$$

 $= \frac{-2\sin^3 x - 4\cos^2 x \sin x}{4\sin^4 x} = \frac{-2\sin^3 x - 4\cos^2 x \sin x}{4\sin^4 x} = \frac{-2\sin^3 x + 2\cos^2 x}{4\sin^4 x} = \frac{-4\cos^2 x \sin^4 x}{2\sin^4 x}$

$$\frac{9}{y} = \frac{x}{\sqrt{1-x^{2}}} \cdot arcsinx$$

$$\frac{9}{y} = \left(\frac{x}{\sqrt{1-x^{2}}}\right) \cdot arcsinx + \frac{x}{\sqrt{1-x^{2}}} \cdot \left(arcsinx\right)^{1} = \frac{x}{(1-x^{2})^{1}} \cdot arcsinx + \frac{x}{\sqrt{1-x^{2}}} \cdot \frac{1}{\sqrt{1-x^{2}}} = \frac{(x)!\sqrt{1-x^{2}} - x \cdot (\sqrt{1-x^{2}})!}{(\sqrt{1-x^{2}})^{2}} \cdot arcsinx + \frac{x}{\sqrt{1-x^{2}}} = \frac{1 \cdot \sqrt{1-x^{2}} - x \cdot \frac{1}{2}(1-x^{2})!}{1-x^{2}} = \frac{1-x^{2}}{\sqrt{1-x^{2}}} \cdot \left(-2x\right) \cdot arcsinx + \frac{x}{\sqrt{1-x^{2}}} = \frac{1-x^{2}}{\sqrt{1-x^{2}}} \cdot arcsinx + x \cdot \sqrt{1-x^{2}} = \frac{1-x^{2}}{\sqrt{1-x^{2}}} \cdot arcsinx + x \cdot \sqrt{1-x^{2}}} = \frac{1-x^{2}}{\sqrt{1-x^{2}}} \cdot arcsinx + x \cdot \sqrt{1-x^{2}} = \frac{1-x^$$

-2. min 2x - 400 x x corx - 2 min x (min 2x + 200 x) though

y mia 1

YIN IO