

Gravin McKay

Find the derivative of $y = \sqrt{x^2 + 1}$ using the chain rule.

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

$$y = (x^2 + 1)^{1/2}$$

$$y' = \frac{1}{2}(x^2 + 1)^{-1/2}$$

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

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$$\left(\frac{1}{2\sqrt{x^2 + 1}} \right) \frac{d}{dx} (x^2 + 1) = \frac{1}{2\sqrt{x^2 + 1}} \cdot 2x = \frac{x}{\sqrt{x^2 + 1}}$$

Math 1080 Demo Quiz