

Quiz & Worksheet - Calculating Derivatives of Inverse Trigonometric Functions

1. Evaluate.

$$\frac{d}{dx} (\sin^{-1}(x))$$

- ☐ $\frac{1}{\sqrt{1-x^2}}$
- ☐ $\frac{1}{\sqrt{1+x^2}}$
- ☐ $\frac{1}{\sqrt{x^2-1}}$
- ☐ $\frac{-1}{\sqrt{1+x^2}}$

2. Find the derivative of $y(t)$.

$$y(t) = \tan^{-1}(2t)$$

- ☐ $y'(t) = \frac{2}{2t^2 + 1}$
- ☐ $y'(t) = \frac{2}{t^2 + 1}$
- ☐ $y'(t) = \frac{2}{\sqrt{t^2 + 1}}$
- ☐ $y'(t) = \frac{4}{2t^2 + 1}$

3. Find $f'(x)$.

$$f(x) = x^2 + \cos^{-1}(x+1)$$

- ☐ $f'(x) = 2x - \frac{1}{\sqrt{-x^2-2x}}$
- ☐ $f'(x) = 2x - \frac{1}{\sqrt{1-x^2}}$
- ☐ $f'(x) = x^2 - \frac{1}{\sqrt{1-x^2}}$
- ☐ $f'(x) = 2x - \frac{1}{x}$

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Kuta Math Inverse Trig Functions

Dmitriy Fotiyev, Izolda Fotiyeva, Ph.D.



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