Student Name: \_\_\_\_\_

Score:

## **Derivatives of Inverse of Trigonometric Functions**

Find the derivatives of inverse of trigonometric functions:

$$y = 7\sin^{-1} 10x$$

$$y = \cos^{-1}(1 - 3x^2)$$

 $y = \tan^{-}$ 

## **PREVIEW**

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 $c^{-1} 2x$ 

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 $y = \sec^-$ 

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$$y = \sin^{-1}(2x + 1)$$

$$y = x^2 + \cos^{-1} x$$

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**Answer key** 

**Derivatives of Inverse of Trigonometric Functions** 

$$\frac{dy}{dx} = \frac{70}{\sqrt{1 - 100x^2}}$$

$$\frac{dy}{dx} = \frac{6x}{\sqrt{1 - (1 - 3x^2)^2}} \text{ or } \frac{6}{\sqrt{6 - 9x^2}}$$

 $\frac{dy}{dx} = \frac{1}{1+x}$ 

dy \_ \_

## **PREVIEW**

 $\frac{dy}{dx} = \frac{-}{3\left(1\right)}$ 

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 $sc^{-1}x$ 

 $\frac{dy}{dx} = \frac{1}{x\sqrt{1}}$ 

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$$\frac{dy}{dx} = \frac{2}{\sqrt{1 - (2x + 1)^2}} \text{ or } \frac{1}{\sqrt{-x^2 - x}}$$

$$\frac{dy}{dx} = 2x - \frac{1}{\sqrt{1 - x^2}}$$