$\qquad$

## Derivatives of Inverse of Trigonometric Functions

Find the derivatives of inverse of trigonometric functions:

$$
y=7 \sin ^{-1} 10 x \quad y=\cos ^{-1}\left(1-3 x^{2}\right)
$$

## PREVIEW <br> $c^{-1} 2 x$

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$y=\sec ^{-}$ worksheet.

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

$$
\frac{d y}{d x}=\frac{70}{\sqrt{1-100 x^{2}}}
$$

$$
\frac{d y}{d x}=\frac{6 x}{\sqrt{1-\left(1-3 x^{2}\right)^{2}}} \text { or } \frac{6}{\sqrt{6-9 x^{2}}}
$$



## $\frac{d y}{d x}=\frac{-}{3(1}$ <br> Gain complete access to the largest collection of worksheets in all subjects!

$$
\frac{d y}{d x}=\frac{}{x \sqrt{1}}
$$



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$$
\frac{d y}{d x}=\frac{2}{\sqrt{1-(2 x+1)^{2}}} \text { or } \frac{1}{\sqrt{-x^{2}-x}} \quad \frac{d y}{d x}=2 x-\frac{1}{\sqrt{1-x^{2}}}
$$

