$\qquad$

## Derivatives of Implicit Functions

Find the derivatives of implicit functions:

$$
x^{2}+y^{2}=25
$$

$$
x^{3}+y^{3}=4
$$

## PREVIEW <br> $+y-1$

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$$
\begin{aligned}
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$$
x=\cos (x y)
$$

$$
\sin (2 x+5 y)=y
$$

$\qquad$

## Derivatives of Implicit Functions

$$
\frac{d y}{d x}=\frac{-x}{y} \quad \frac{d y}{d x}=\frac{-x^{2}}{y^{2}}
$$

## $\frac{d y}{d x}=\frac{2 x}{3 y^{2}}$ <br> PREVIEW

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$\frac{d y}{d x}=\frac{12 x^{2}+}{4 y^{3}+}$
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$$
\frac{d y}{d x}=-\left(\frac{1}{x}\right)(y+\csc x y)
$$

$$
\frac{d y}{d x}=\frac{2}{\sec (2 x+5)-5}
$$

