Student Name:

Score:

## **Derivatives of Implicit Functions**

Find the derivatives of implicit functions:

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

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

 $y^3 - x^2 =$ 

## **PREVIEW**

+y-1

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 $y^4=4x^3$ 

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- e<sup>5y</sup>

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$$x = \cos(xy)$$

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

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**Answer key** 

**Derivatives of Implicit Functions** 

$$\frac{dy}{dx} = \frac{-x}{y}$$

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

 $\frac{dy}{dx} = \frac{2x}{3y^2}$ 

## **PREVIEW**

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 $\frac{dy}{dx} = \frac{12x^2 + 4y^3 +$ 

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$$\frac{dy}{dx} = -\left(\frac{1}{x}\right)(y + \csc xy)$$

$$\frac{dy}{dx} = \frac{2}{\sec(2x+5)-5}$$