

**Example**

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

-To solve, differentiate both sides of the equation with respect to  $x$ , treating  $y$  as a differentiable function of  $x$ .

$$y^2 = x$$

$$2y \frac{dy}{dx} = 1 \qquad \frac{d}{dx}(y^2) = \frac{d}{dy}(y^2) \cdot \frac{dy}{dx}$$

$$\frac{dy}{dx} = \frac{1}{2y}$$

-This is helpful in this case.

$$y^2 = x$$

$$y = \sqrt{x}$$

-This graph has 2 slopes for  $x = 4$  one at  $(4,2)$  and  $(4,-2)$ .

-Here our derivative is in terms of  $y$  so we can use  $y_1$  and  $y_2$  to find BOTH derivatives.

$$\frac{1}{2y_1} = \frac{1}{4} \qquad \frac{1}{2y_2} = -\frac{1}{4}$$

**Example-Finding Slope of a Circle**

Find the slope of the circle  $x^2 + y^2 = 25$  at  $(3,-4)$

-To graph this we would need to solve for  $y$ :

$$y_1 = \sqrt{25 - x^2} \qquad y_2 = -\sqrt{25 - x^2}$$

# Advanced Placement Calculus With Ti89

**O García**



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