

Linear Functions

$$(y=mx+b)$$

Example 1

Write in slope intercept form the equation of the line.

$$m = 2 \quad b = -5$$

$$y = 2x - 5$$

Example 2

What is the “m” and the “b” from the given equation.

$$y = 10x$$

$$m = 10 \quad b = 0$$

Graph the equation: $y = x - 4$

$$y = mx + b$$

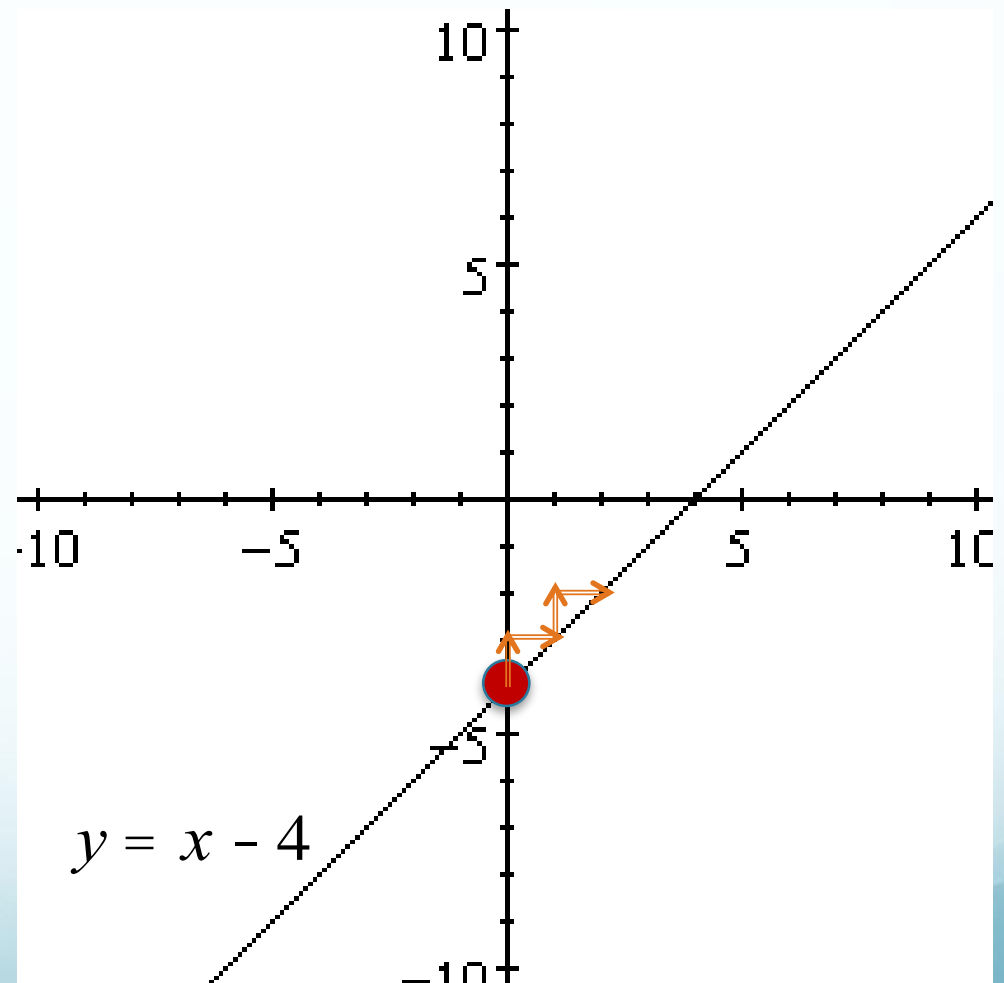
$$y = x - 4$$

$$m = 1$$

$$b = -4$$

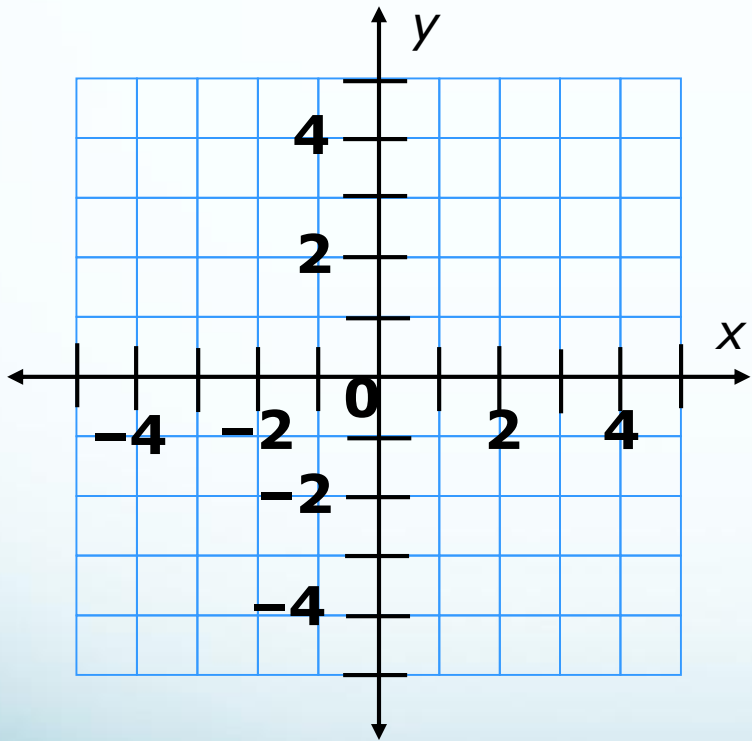
Start with
y-intercept.

Then use
slope.



Practice

Graph the linear function $y = 3x + 1$.



$$m = ?$$

$$b = ?$$

Start with
y-intercept.

Then use
slope.

Slope Intercept Form


$$y = mx + b$$

$m = \text{slope}$

$b = y - \text{intercept}$