

Standard to Slope-Intercept

$$Ax + By = C$$

Step 1:

Move Ax to other side by adding or subtracting

$$\begin{array}{rcl} Ax + By = C \\ -Ax \quad \quad -Ax \end{array}$$

Step 2:

Divide everything by B

$$\frac{By}{B} = \frac{-Ax}{B} + \frac{C}{B}$$

Step 3:

Graph y -intercept and use the slope to graph second point. Draw the line

$$y = -\frac{A}{B}x + \frac{C}{B}$$

$$y = mx + b$$

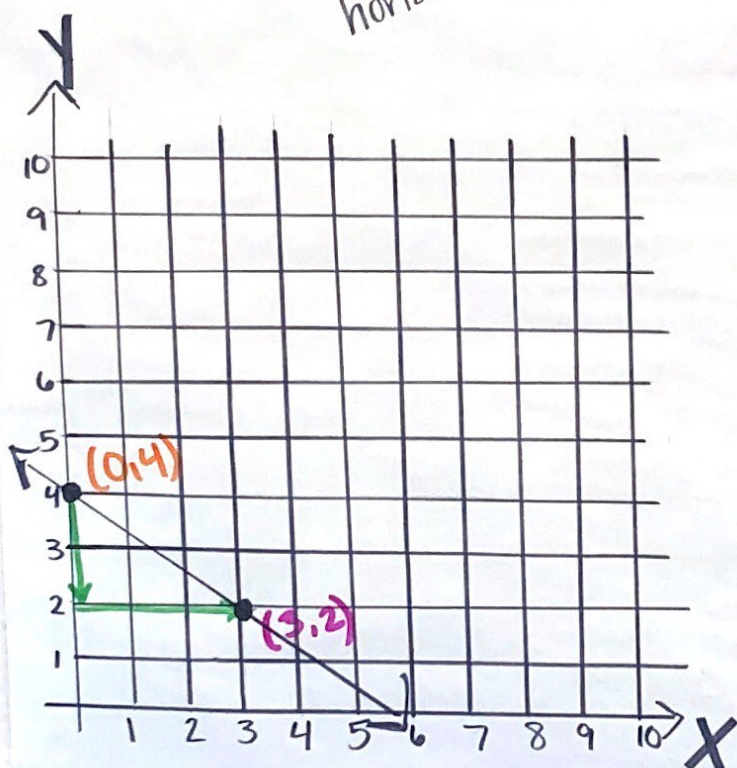
↑ ↑
Slope y -intercept

Slope-Intercept Form

$$y = mx + b$$

Slope
 $\frac{\text{Vertical change}}{\text{Horizontal change}}$

y-intercept
(0, y)



$$y = -\frac{2}{3}x + 4$$

$$m = -\frac{2}{3} \quad \downarrow \rightarrow$$

$$b = 4$$

y-intercept
(0, 4)