

Slope-Intercept Form p.81

Equation:

$$y = mx + b$$

slope ↙ y-intercept

To Graph:

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

1) Plot the y-intercept

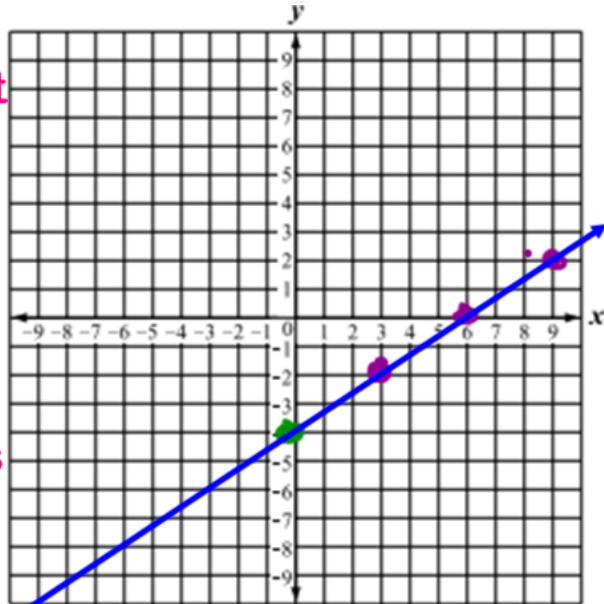
- 4

2) Use the slope to plot additional points

$$\frac{2}{3} = \frac{\text{rise}}{\text{run}}$$

3) Connect the points with a straight line

extend the line across the graph



~~x~~ Point Test:

Is (12, 4) on the line?

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

$$4 = \frac{2}{3}(12) - 4$$

$$4 = \frac{24}{3} - 4$$

$$4 = 8 - 4$$

$$4 = 4$$

✓

~~x~~ y

Is (-6, 10) on the line?

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

$$10 = \frac{2}{3}(-6) - 4$$

$$10 = \frac{-12}{3} - 4$$

$$10 = -4 - 4$$

$$10 \neq -8$$

No!