



## Graphing

# Slope Intercept Form

Step 1: Write  $y=mx+b$  under your problem.

$$y = 2x - 4$$
$$y = mx + b$$

$$m=2 \quad b=-4$$

Step 2: Circle the **slope** ( $m$ ) and **y-intercept** ( $b$ ).

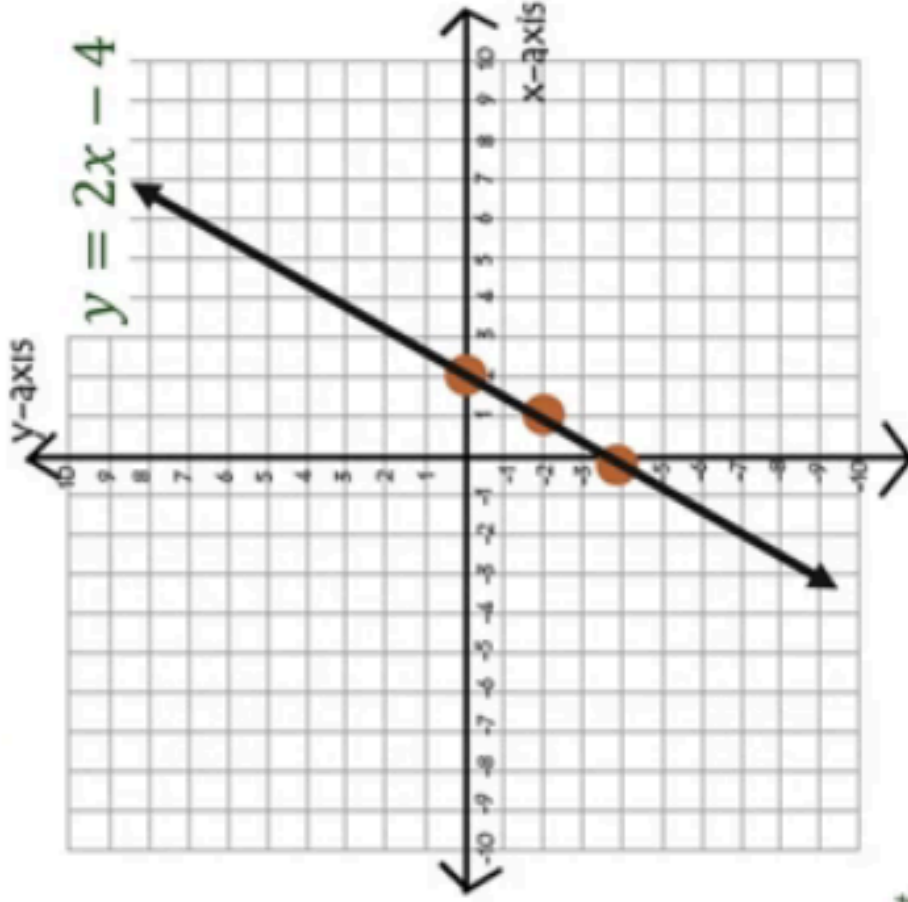
Step 3: Place a dot on the **y-intercept** (the number on the y-axis)

Step 4: Rewrite the slope as rise over run.

$$m = \frac{\text{rise}}{\text{run}}$$

=  $\frac{2}{1}$  Positive rise goes up.

Positive run goes right.



Step 5: Place your pencil on the **y-intercept** and follow your **rise** over **run**.

Step 6: Draw your line. Make sure you have arrows on both ends of your line!

Step 7: Label the line.

