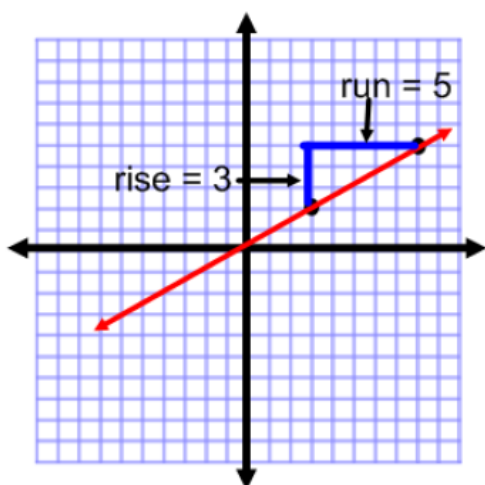


Graphing Equations – Quick Reference

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

- Calculate the slope by choosing two points on the line.
- Count the rise (how far up or down to get to the next point?) This is the numerator.
- Count the run (how far left or right to get to the next point?) This is the denominator.
- Write the slope as a fraction.



Slope = $3/5$

** Read the graph from left to right. If the line is **falling**, then the slope is **negative**. If the line is **rising**, the slope is **positive**.

When counting the rise and run, if you count **down or **left**, then the number is **negative**. If you count **up** or **right**, the number is **positive**.

Slope Intercept Form

$y = mX + b$

↑
↑
 Slope Y-intercept

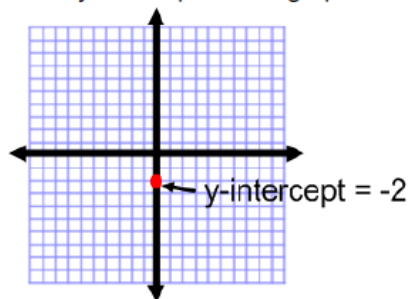
Graphing Using Slope Intercept Form

1. Identify the slope and y-intercept in the equation.

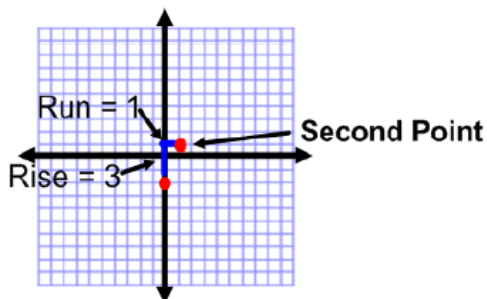
$y = 3x - 2$

↑
↑
 Slope Y-intercept

2. Plot the y-intercept on the graph.



3. From the y-intercept, count the rise and run for the slope. Plot the second point.



4. Draw a line through your two points.

