Lesson 3: Graphing Using (1) slope and y-intercept and (2) x- and y-intercepts

Warm-Up

Ticket Out Day 1 and Day 2

Method 1: Slope and y-intercept

Examples:

Graph the following lines using their slope and y-intercept.

1) y = 2x + 5

Slope: _____ y-intercept: _____

$$_{2)} y = \frac{3}{5}x - 2$$

Slope: _____ y-intercept: _____

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

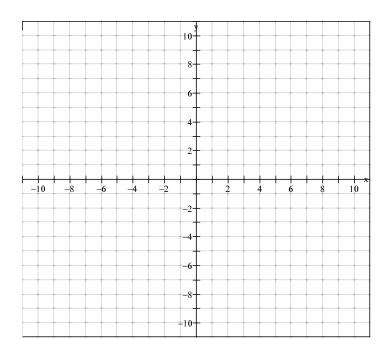
Slope: _____ y-intercept: _____

Review the Steps:

1. Plot the y-intercept as a point.

rise

- 2. Use $\frac{1}{run}$ to graph the next two points.
- 3. Connect the points with an extended line and label.



Method 2: x- and y-intecepts

Recall:

y-intercept – where the line crosses the ______. the value of x is _____

x-intercept – where the line crosses the ______. the value of y is _____

Examples:

Graph the following equations using their x- and y-intercepts.

1) 3 <i>x</i>	-2y	=6
÷.,	/	/	

x-intercept:

y-intercept:

2) 6x - 5y - 30 = 0

x-intercept:

y-intercept:

