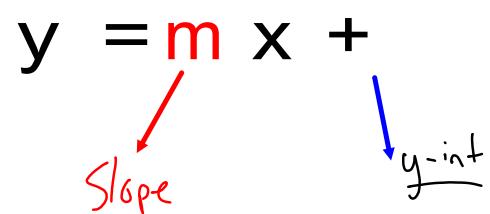
## **Review:**

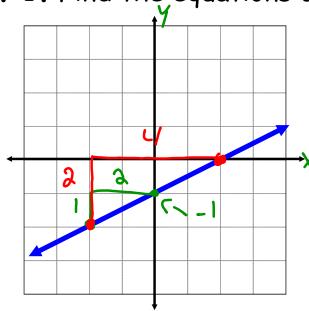
March 2/16



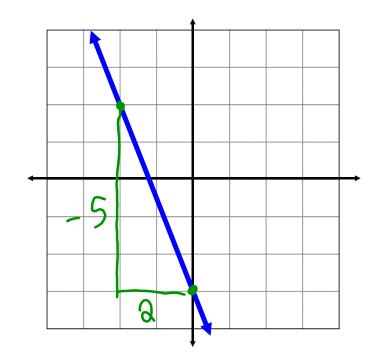
- \*To Find the equation of a line in the form y = mx + b:
  - Step 1: Find the slope
  - Step 2: Find the y-intercept
  - **Step 3:** Plug the slope and y-intercept into the equation
  - ie. If the slope is <u>-3</u> and the y-intercept is <u>-5</u>, write the equation of the line.

## **Finding Equations of Lines**

Ex. 1. Find the equations of the lines:



$$M = \frac{1}{2}$$
 $M = \frac{1}{2}$ 
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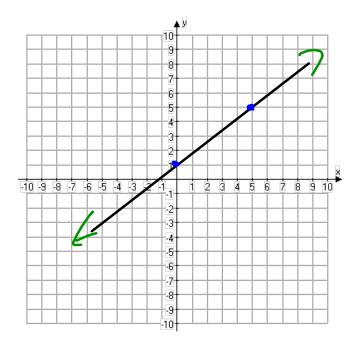


$$M = -\frac{5}{2}b = -3$$
  
 $y = -\frac{5}{2}x - 3$ 

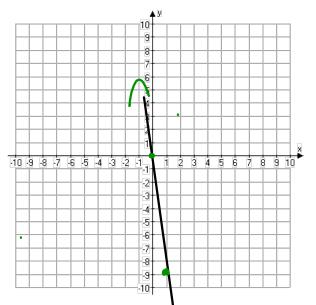
### To Graph a line in the form y = mx + b:

- 1. Plot the y-intercept
- 2. From the y-intercept, do the slope (rise and then run) and make a point
- 3. Use the points to make a straight line

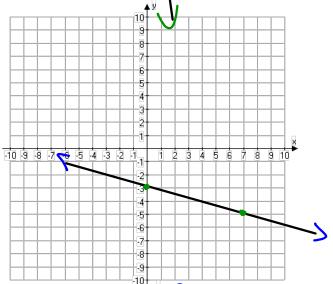
### Ex. 2. Graph the equations on the grid:



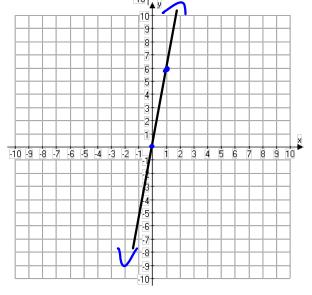
b) 
$$y = -9x$$



c) 
$$y = -2x - 3$$

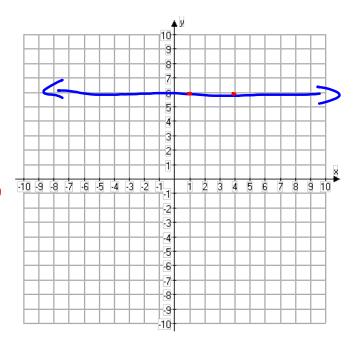


d) y = 6x



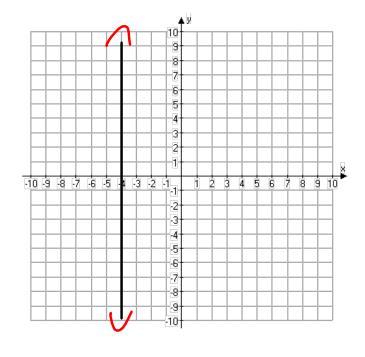
e) 
$$y = 6$$

\*When the M=0 equation is in 3 the form y=#, it = 0 is a horizontal line



# f) x = -4

\*When the equation is in the form x=#, it is a vertical line



HOMEWORK DO YOUR HOMEWORK

**Graphing Lines Handout** 

#### **Quiz Tomorrow!**

- -Slope
- -Equations of lines
- -Graphing Lines

