

December 7, 2010

Get out your homework from Friday and Monday

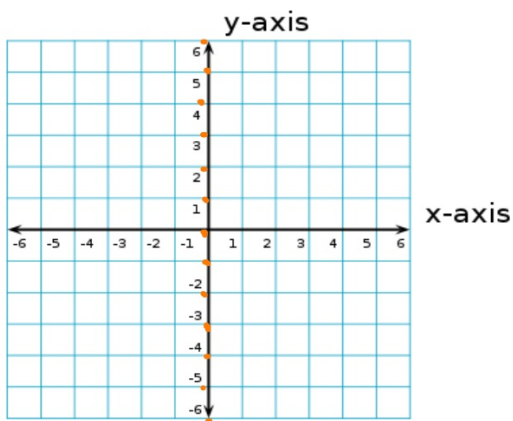
$$\textcircled{5} \quad (16, -1) \quad (-14, -11)$$

$$m = \frac{-11 - (-1)}{-14 - 16}$$

$$= \frac{-10}{-30}$$

$$= \frac{1}{3}$$





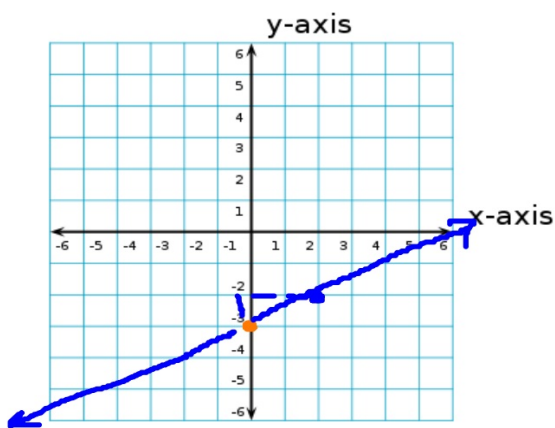
Points on the
y-axis are called
y-intercepts

How many
y-intercepts
are there?

infinite #

If you have **one** intercept and a slope,
you get **one** line...

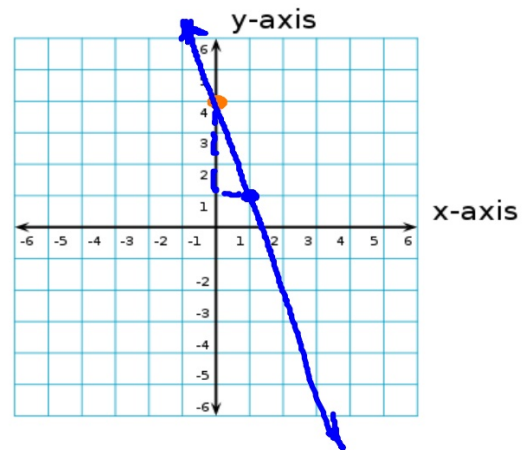
Graph these:



$$m = \frac{1}{2} \begin{array}{l} \text{up} \\ \text{right} \end{array}$$

$$y\text{-int} = -3$$

Stand here



$$m = -\frac{3}{1} \begin{array}{l} \text{down} \\ \text{right} \end{array}$$

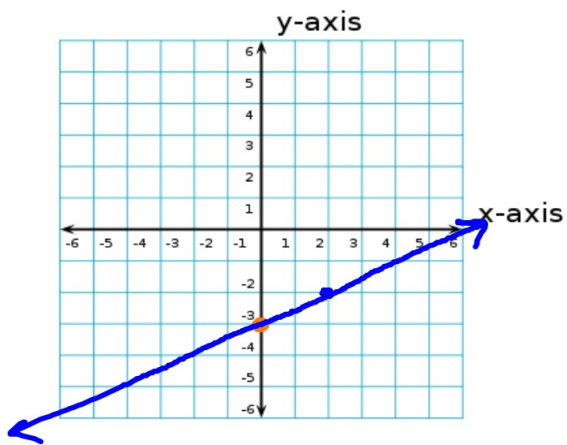
$$y\text{-int} = 4$$

Slope – Intercept Form

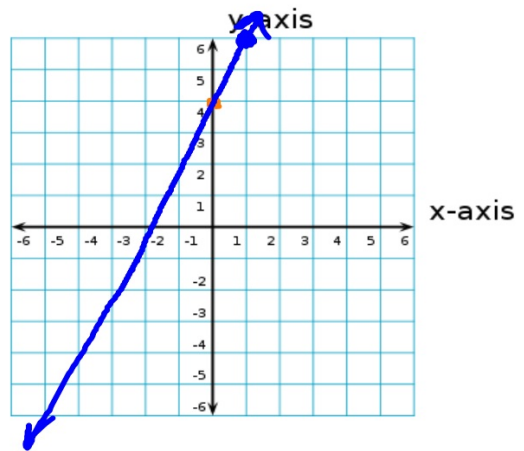
$$y = mx + b$$

↑ ↑
slope y-intercept

$$y = \overset{\text{up}}{\underset{\text{right}}{\frac{1}{2}}}x \overset{\text{y-int}}{-3}$$

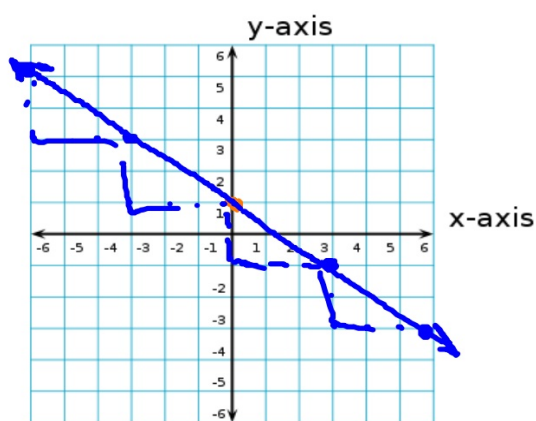


$$y = \overset{\text{up}}{\underset{\text{right}}{2}}x \overset{\text{y-int}}{+4}$$



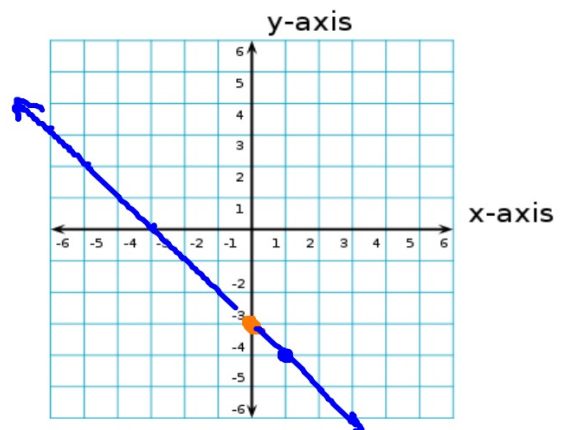
$$y = -\frac{2}{3}x(+1)$$

$m = -\frac{2}{3}$ down
3 right



$$y = -x(-3)$$

$m = -\frac{1}{1}$ down
1 right

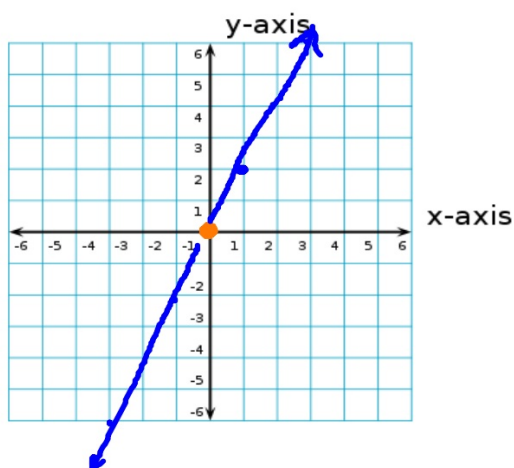


$$y = \frac{2}{1}x + 0$$

y-int.

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

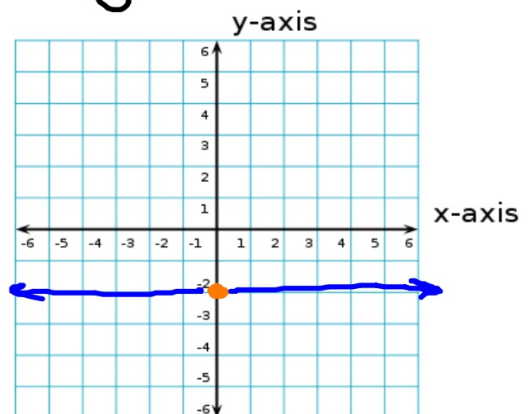
up
right



$$y = -2$$

y-int
(no "x" in the eq)

$$y = 0x - 2$$



Homework:

Worksheet

Due: Monday
with Pink WS3