

Homework: Graphing Linear Equations Using Slope Intercept Form

Name: _____

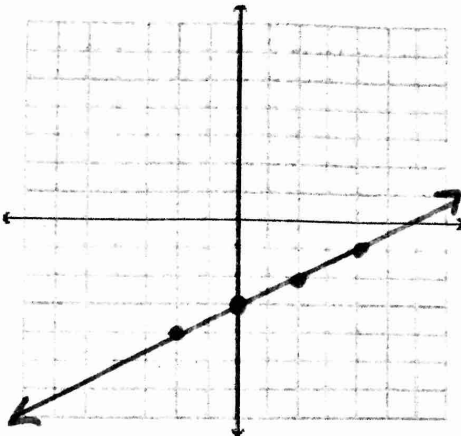
Graphing each linear equations using slope intercept form. Be sure to show your work as needed.

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

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

$$b = -3$$

(0, -3)



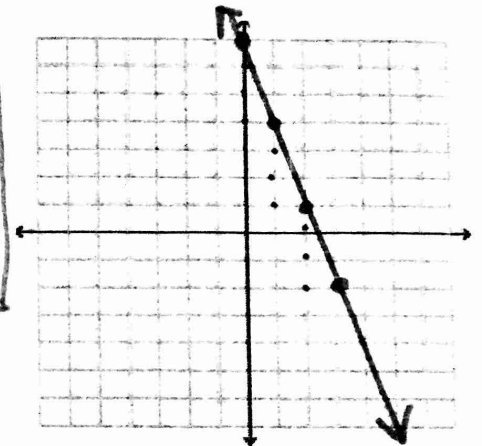
$$-3x + y = 7$$

$$y = -3x + 7$$

$$m = -3$$

$$b = 7$$

(0, 7)



$$-2x + y = 5$$

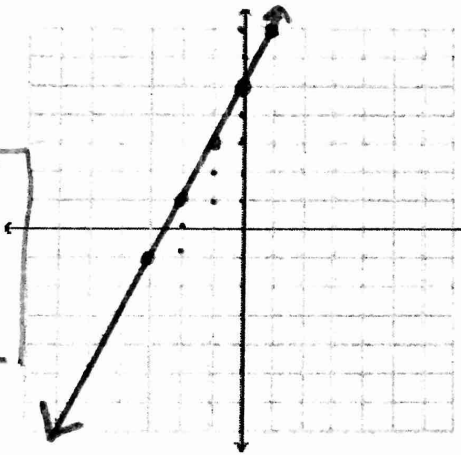
$$+2x \quad +2x$$

$$y = 2x + 5$$

$$m = 2$$

$$b = 5$$

(0, 5)



$$3x - y = -2$$

$$-3x \quad -3x$$

$$-y = -3x - 2$$

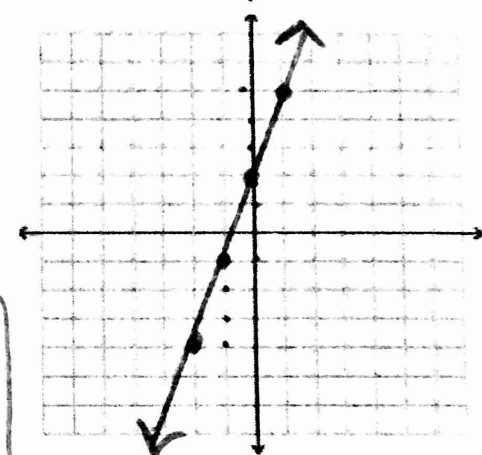
$$\frac{-y}{-1} = \frac{-3x - 2}{-1}$$

$$y = 3x + 2$$

$$m = 3$$

$$b = 2$$

(0, 2)



$$4x + y = -7$$

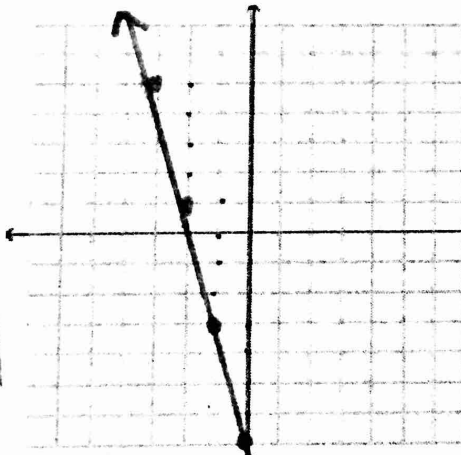
$$-4x \quad -4x$$

$$y = -4x - 7$$

$$m = -4$$

$$b = -7$$

(0, -7)



$$y + 7 = 5x$$

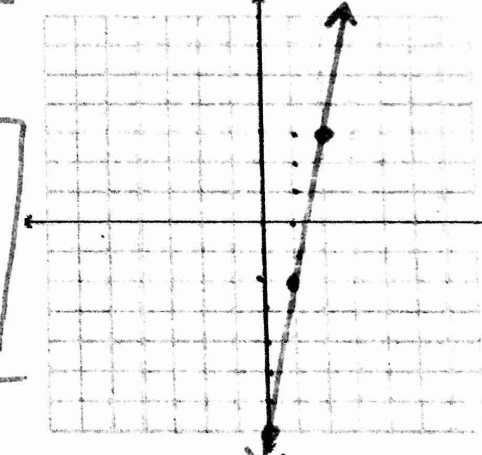
$$-7 \quad -7$$

$$y = 5x - 7$$

$$m = 5$$

$$b = -7$$

(0, -7)



$$y - 3 = 2x$$

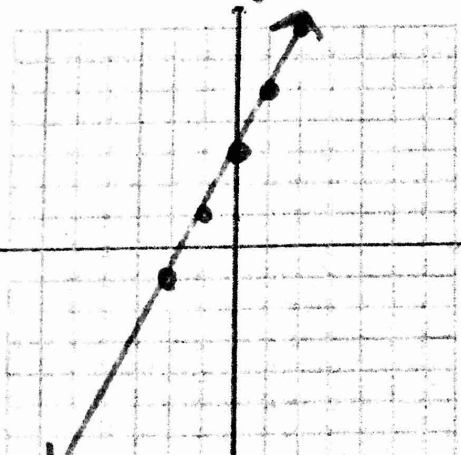
$$+3 \quad +3$$

$$y = 2x + 3$$

$$m = 2$$

$$b = 3$$

(0, 3)

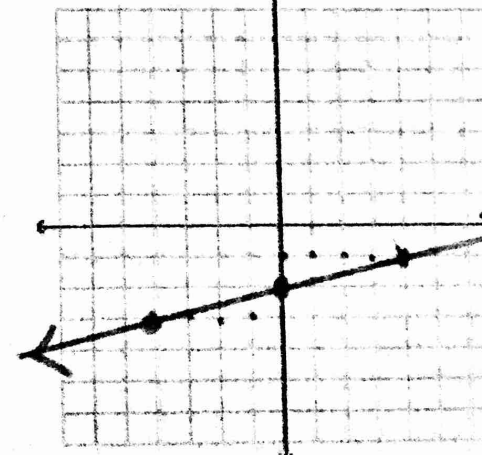


$$y = \frac{1}{4}x - 2$$

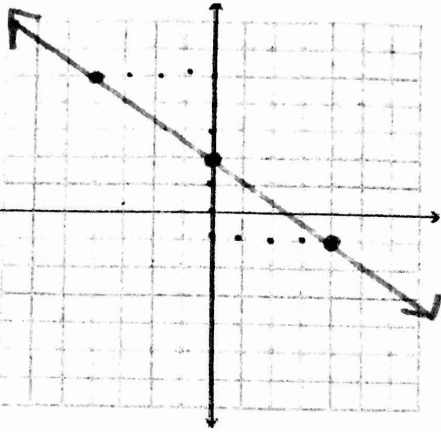
$$m = \frac{1}{4}$$

$$b = -2$$

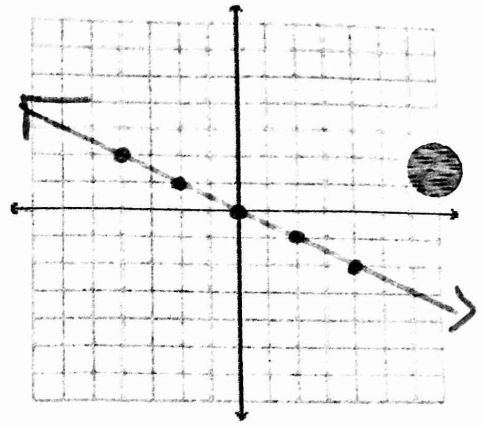
(0, -2)



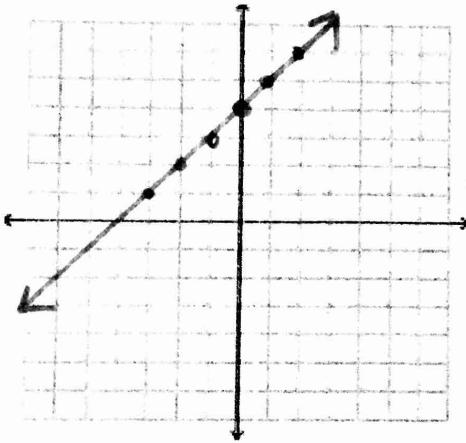
$$\begin{array}{r} \frac{3}{4}x + y = 2 \\ -\frac{3}{4}x \quad -\frac{3}{4}x \\ \hline y = -\frac{3}{4}x + 2 \\ m = -\frac{3}{4} \\ b = 2 \\ (0, 2) \end{array}$$



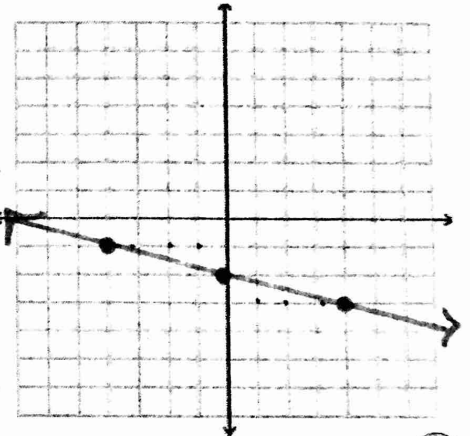
$$\begin{array}{r} y = -\frac{1}{2}x + 0 \\ m = -\frac{1}{2} \\ b = 0 \\ (0, 0) \end{array}$$



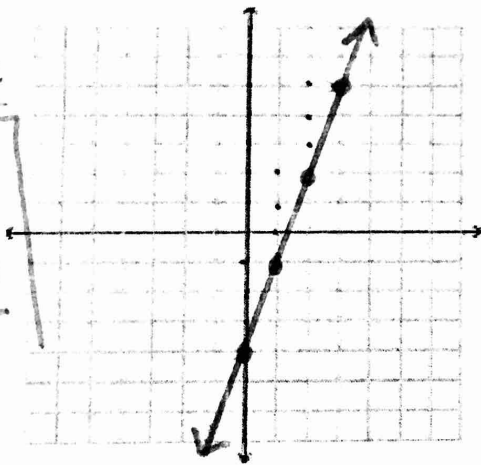
$$\begin{array}{r} x - y = -4 \\ -x \quad -x \\ \hline -y = -x - 4 \\ -1 \\ \hline y = x + 4 \\ m = 1 \\ b = 4 \\ (0, 4) \end{array}$$



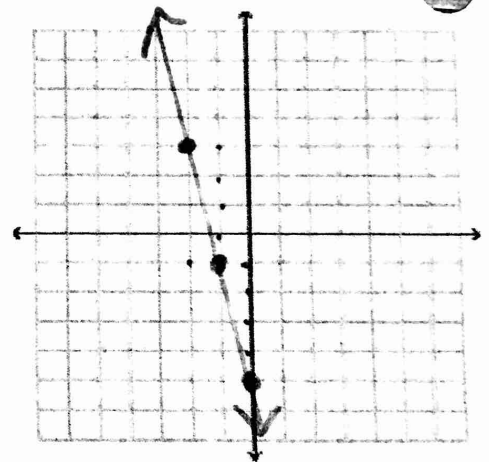
$$\begin{array}{r} \frac{1}{4}x + y = -2 \\ -\frac{1}{4}x \quad -\frac{1}{4}x \\ \hline y = -\frac{1}{4}x - 2 \\ m = -\frac{1}{4} \\ b = -2 \\ (0, -2) \end{array}$$



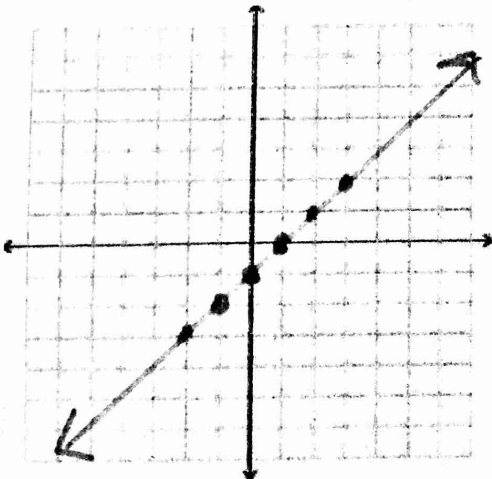
$$\begin{array}{r} -3x + y = -4 \\ +3x \quad +3x \\ \hline y = 3x - 4 \\ m = 3 \\ b = (0, -4) \end{array}$$



$$\begin{array}{r} y = -4x - 5 \\ m = -4 \\ b = -5 \\ (0, -5) \end{array}$$



$$\begin{array}{r} y - x = -1 \\ +x \quad +x \\ \hline y = x - 1 \\ m = 1 \\ b = -1 \\ (0, -1) \end{array}$$



$$\begin{array}{r} y = -2x - 3 \\ m = -2 \\ b = -3 \\ (0, -3) \end{array}$$

