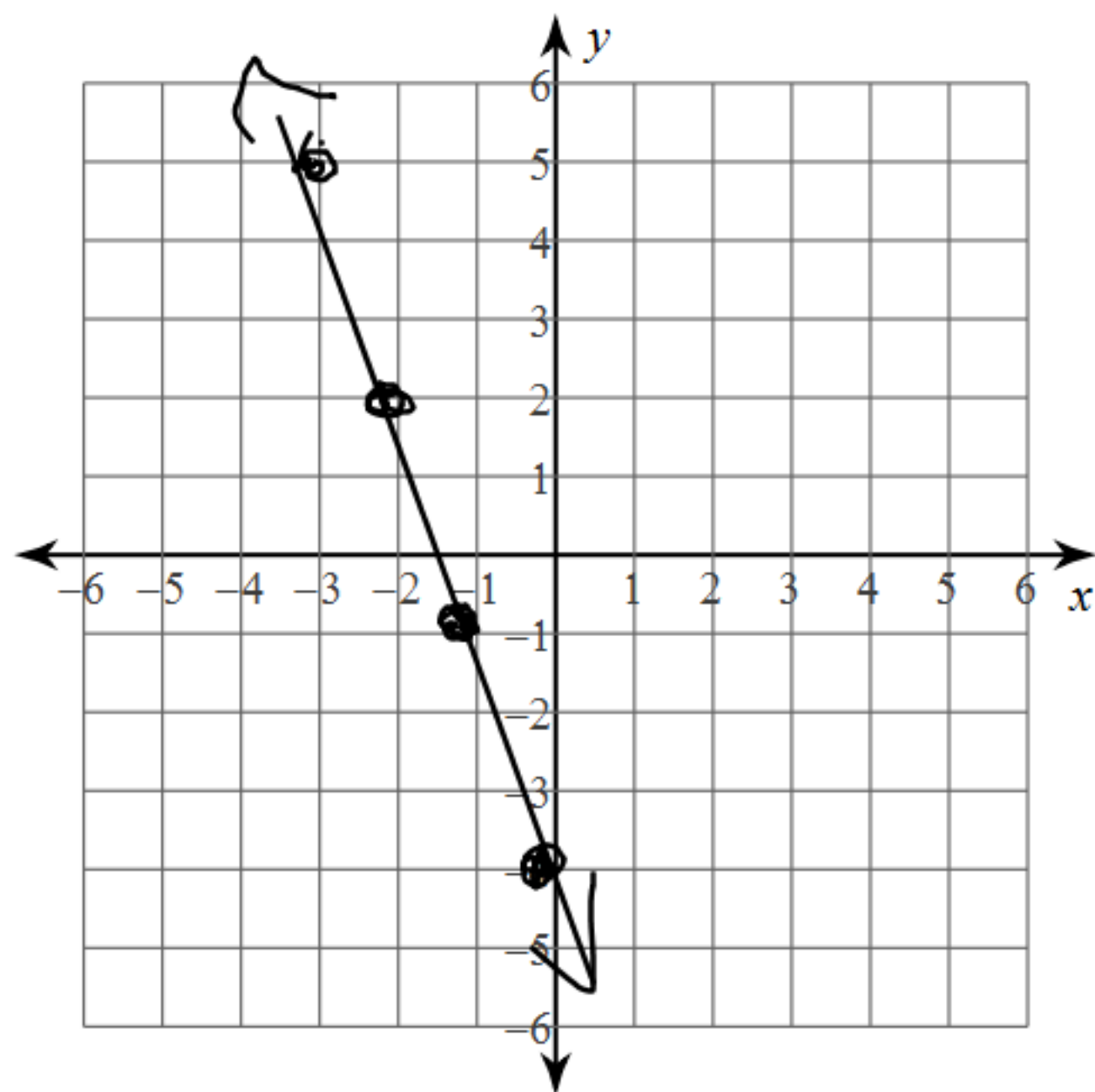


First, rearrange the equation to get y by itself. Then, state the 'b' (y intercept) and the 'm' (slope). Then, sketch the graph of the line.

~~$3x$~~ $-3x$

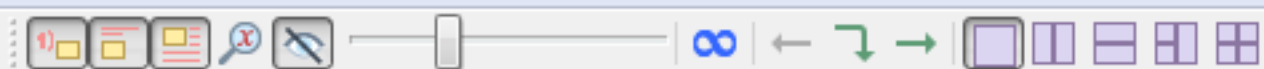
1) $3x + y = -4$



$$y = -3x - 4$$

$$m = \underline{-3}$$

$$b = -4$$



Solve each system by graphing.

1) $y = 2x - 2$

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

① $m = 2$

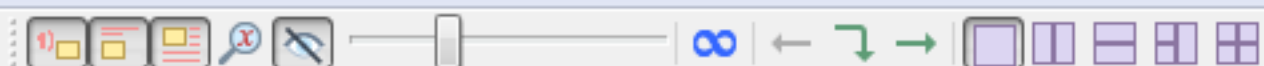
$$b = -2$$

②

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

$$b = 3$$

POI is $(2, 2)$



Solve each system by elimination.

1) $4x - 7y = -9$

2) $-2x - 4y = 12$

$$\cancel{-4x} - 8y = 24$$

$$\cancel{4x} - 7y = -9$$

$$\begin{array}{r} -15y = 15 \\ \hline -15 \quad -15 \end{array}$$

$$y = -1$$

Solve x:

$$4x - 7y = -9$$

$$4x - 7(-1) = -9$$

$$4x + \cancel{7} = -9 \quad -7$$

$$\begin{array}{r} 4x = -16 \\ \hline 4 \quad 4 \end{array}$$

$$x = -4$$

POI $(-4, -1)$

Solve each system by substitution.

$$5) \quad -5x + 8y = -5$$

$$x - 3y = 8$$

$$x - 3y = 8$$

$$x = 8 + 3y$$

$$-5(8 + 3y) + 8y = -5$$

$$-40 - 15y + 8y = -5$$

$$-40 - 7y = -5$$

$$-7y = 35$$

$$y = -5$$

Solve for x :

$$-5x + 8y = -5$$

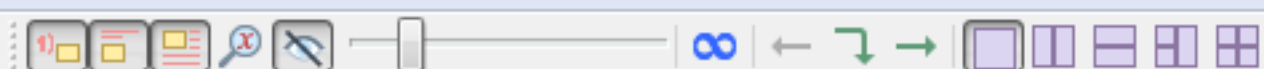
$$-5x + 8(-5) = -5$$

$$-5x - 40 = -5$$

$$-5x = 35$$

$$x = -7$$

POI $(-7, -5)$



- 1) Bill and Jasmine are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Bill sold 9 small boxes of oranges and 14 large boxes of oranges for a total of \$397. Jasmine sold 1 small box of oranges and 7 large boxes of oranges for a total of \$153. What is the cost each of one small box of oranges and one large box of oranges?

Let x be small boxes

Let y be large boxes

$$B: 9x + 14y = 397$$

$$J: x + 7y = 153$$

$$-2x - 14y = -306$$

$$9x + 14y = 397$$

$$7x = 91$$

$$x = 13$$

Find y :

$$9(13) + 14y = 397$$

$$-117 \quad 117 + 14y = 397 - 117$$

$$14y = 280$$

$$14 \quad 14$$

$$y = 20$$

\therefore A small box is \$13
and a large box is \$20.