

Bell Work

3/18/2015

What is the slope and y-intercept of the following equations?

1. $y = -x + 12$

slope = $m = (-1)$

y-int = (12)

$y = mx + b$
 ↑ slope ↑ y-int

2. ~~$12x + 3y = 24$~~

~~$-12x$~~ ~~$-12x$~~

$$\frac{3y}{3} = \frac{-12x + 24}{3}$$

$$y = -\frac{12}{3}x + \frac{24}{3}$$

$$y = -4x + 8$$

slope = $m = (-4)$

y-int = (8)

$$\begin{array}{r} 3x + 2y = 6 \\ -3x \qquad -3x \\ \hline \end{array}$$

$$\frac{2y}{2} = \frac{-3x + 6}{2}$$

$$y = -\frac{3}{2}x + \frac{6}{2}$$

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

$$\text{Slope} = -\frac{3}{2}$$

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

$$\begin{array}{r} 4x - 5y = 0 \\ -4x \quad -4x \\ \hline -5y = -4x \\ \frac{-5y}{-5} = \frac{-4x}{-5} \\ y = \frac{4}{5}x \end{array}$$

$$\begin{array}{l} \text{Slope} = \frac{4}{5} = \frac{\text{Rise}}{\text{Run}} \\ y\text{-int} = 0 \end{array}$$

$$y = -1$$

$$\text{Slope} = 0$$

$$y\text{-int} = -1$$

$$\textcircled{14} \quad x + 5y = -15$$

$$\begin{array}{r} -x \\ -x \end{array}$$

$$\frac{5y}{5} = \frac{-x - 15}{5}$$

$$y = -\frac{1}{5}x - \frac{15}{5}$$

$$y = -\frac{1}{5}x - 3$$

$$\text{Slope: } \underline{\underline{-\frac{1}{5}}}$$

$$y\text{-int: } \underline{\underline{-3}}$$

$$\begin{array}{r} -2y - 10 + 2x = 0 \\ +10 \quad +10 \end{array}$$

$$\begin{array}{r} -2y + 2x = 10 \\ -2x \quad -2x \end{array}$$

$$\frac{-2y}{-2} = \frac{-2x + 10}{-2}$$

$$y = -\frac{2}{-2}x + \frac{10}{-2}$$

$$y = 1x - 5$$

Slope = 1
y-int = -5

$$x + 5 + y = 0$$

$-x$ $-x$

$$5 + y = -x$$

-5 -5

$$y = -x - 5$$

Slope
= -1

y-int = -5

$$\frac{3x+20}{-4} = \frac{-4y}{-4}$$

$$-\frac{3}{4}x + \frac{20}{-4} = y$$

$$-\frac{3}{4}x - 5 = y$$

$$\text{Slope} = -\frac{3}{4}$$

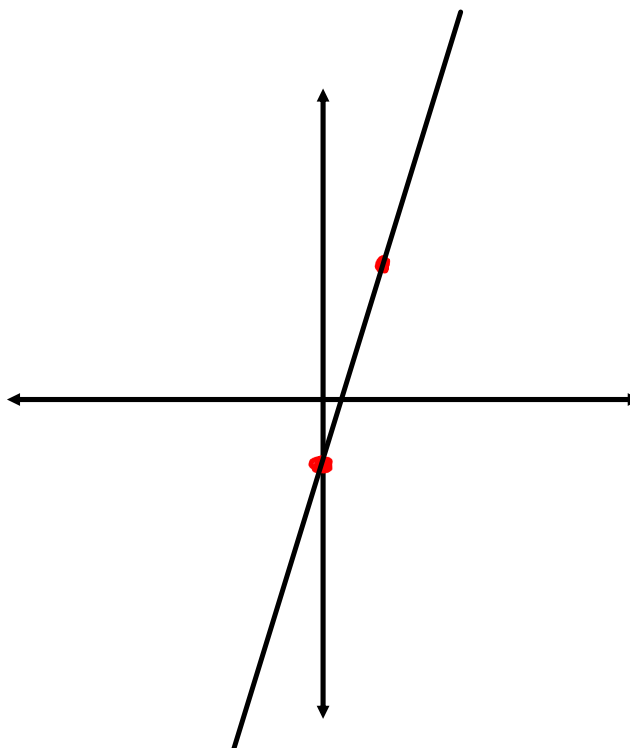
$$y\text{-int} = -5$$

1.

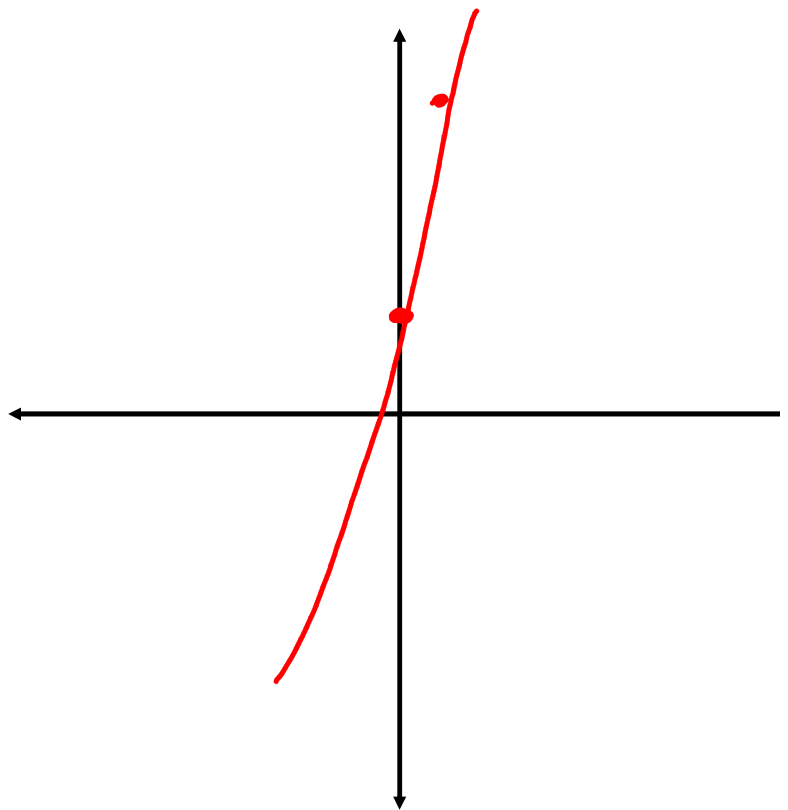
$$y = \frac{7}{2}x - 2$$

$$y\text{-int} = -2$$

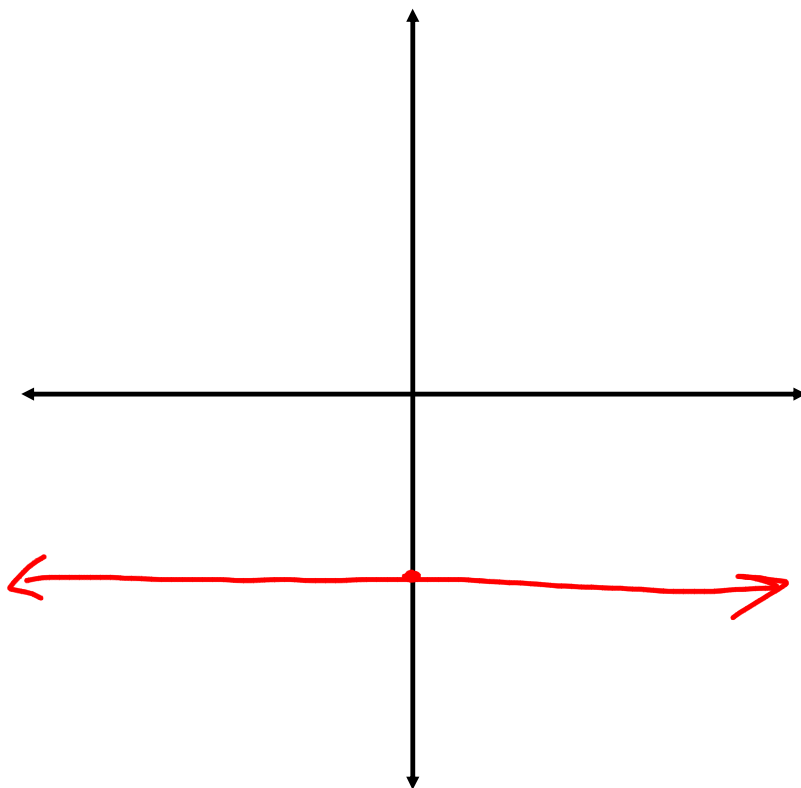
$$\text{Slope} = \frac{7}{2} = \frac{\text{Rise}}{\text{Run}}$$



2. $y = 6x + 3$

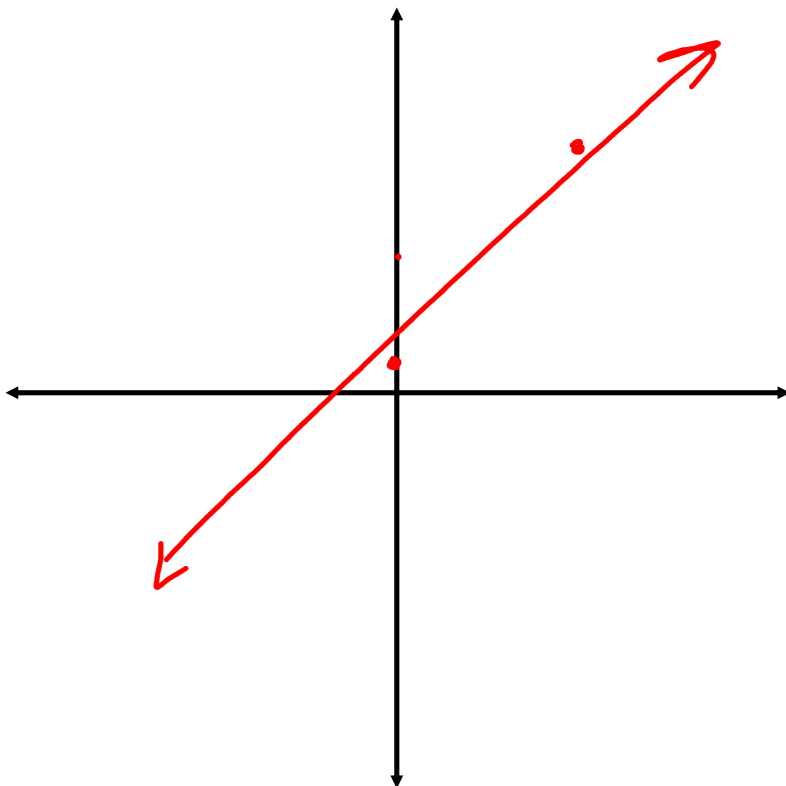


3. $y = -5$



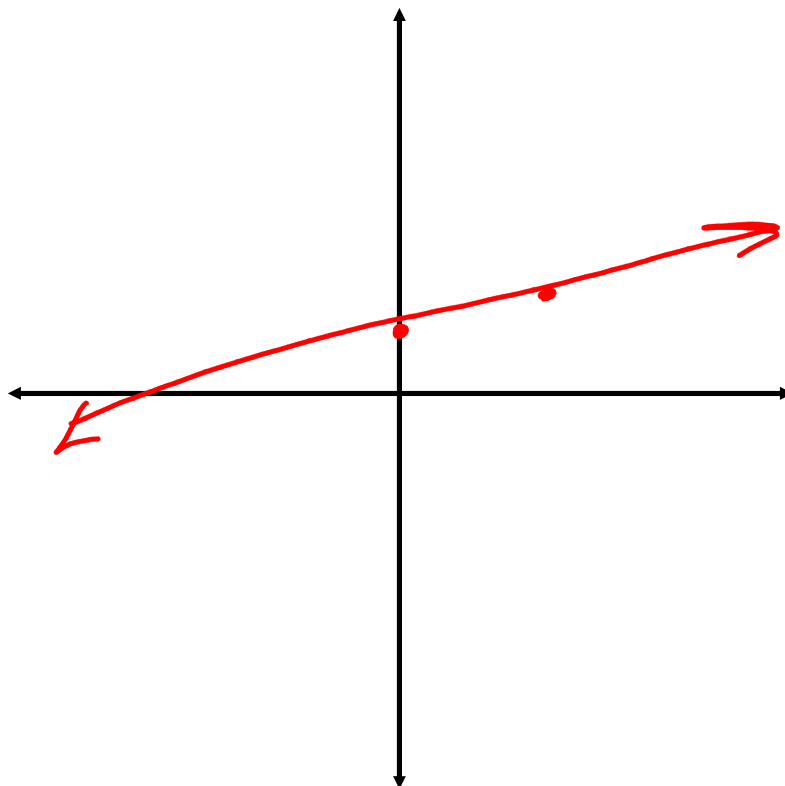
4.

$$\textcircled{4} \quad \frac{6}{5}x + 1 = y$$

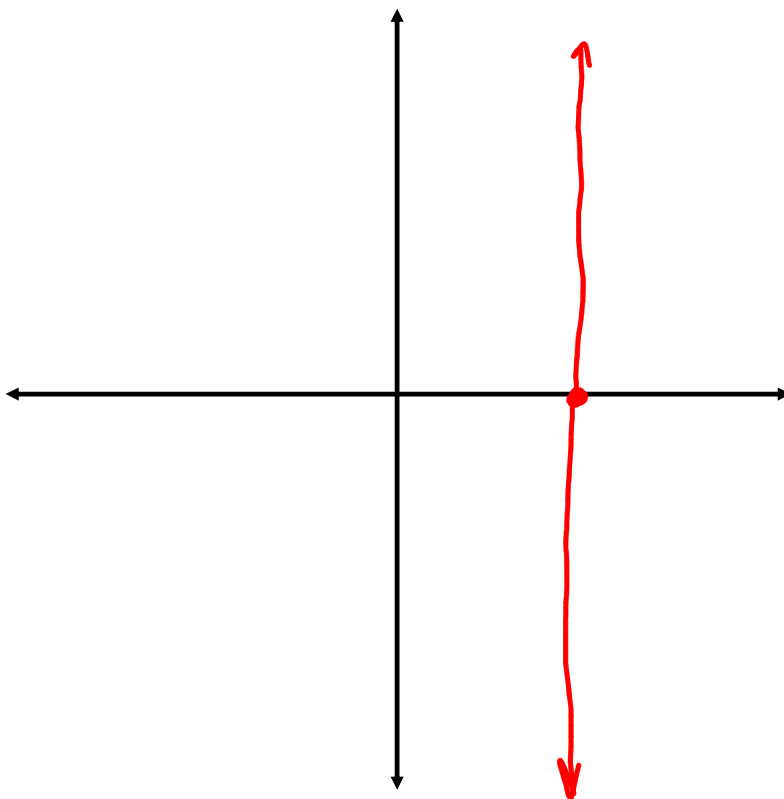


5.

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

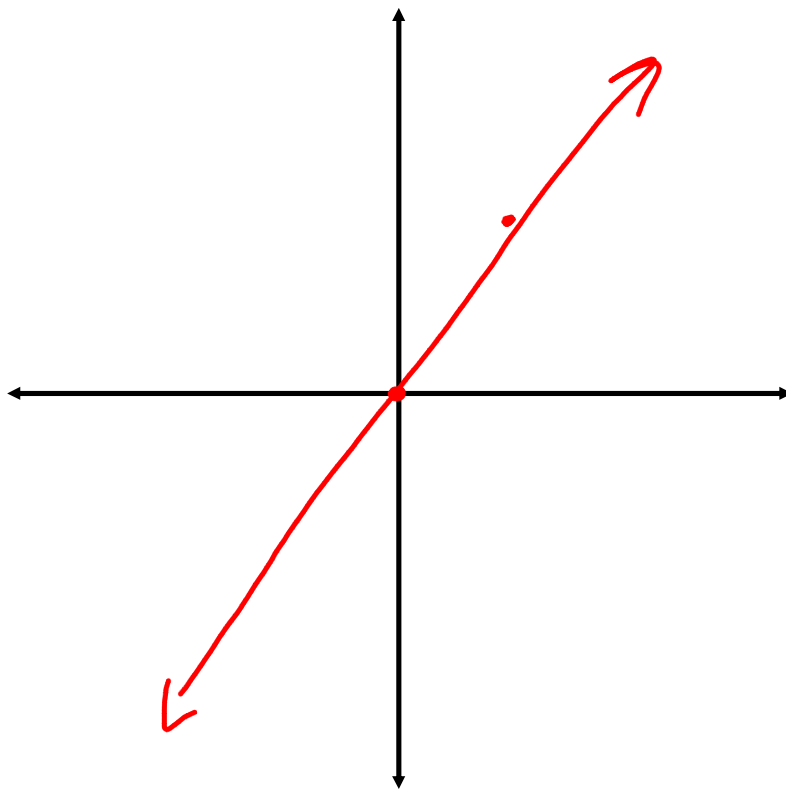


6. $x = 5$



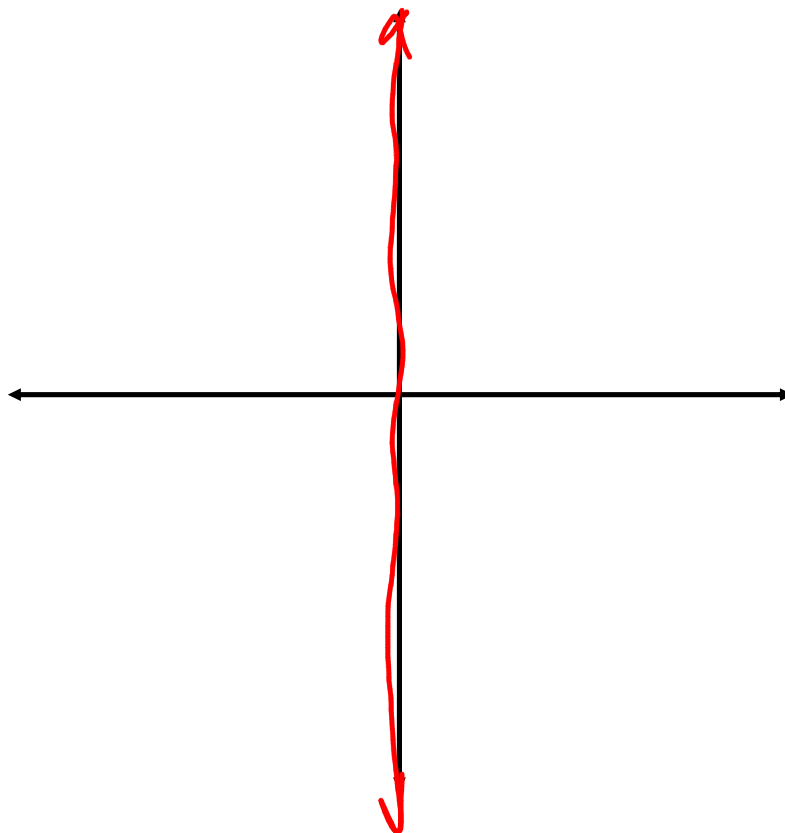
7.

$$y = \frac{5}{3}x + 0$$



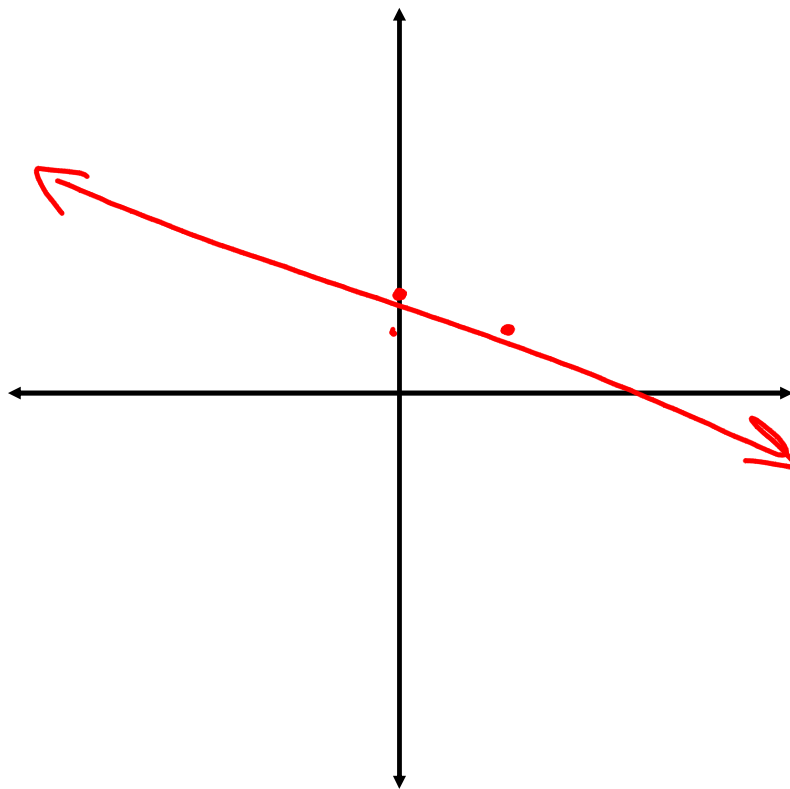
8.

$$X = 0$$



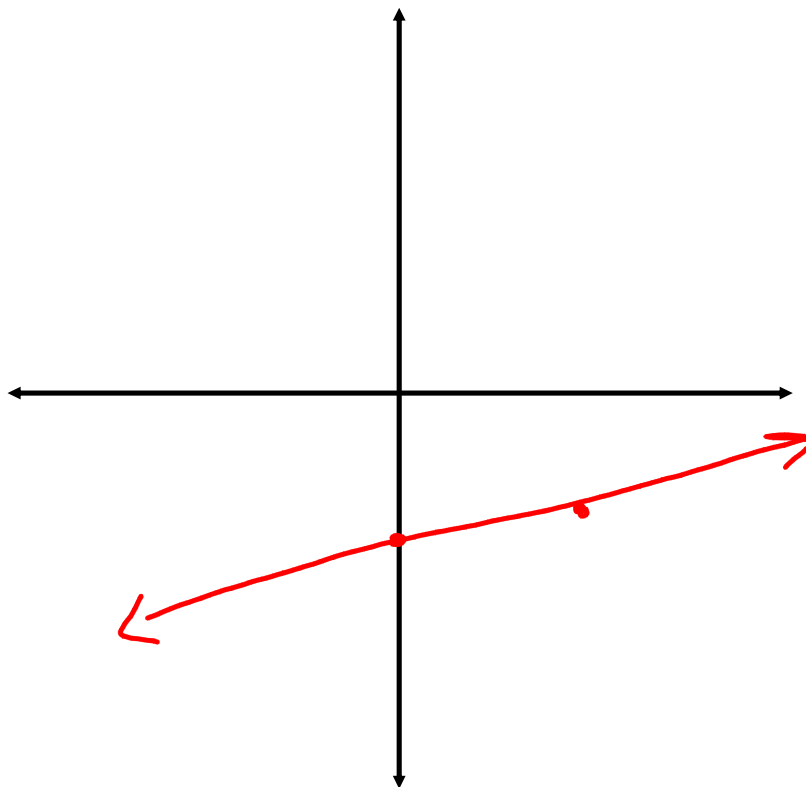
9.

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



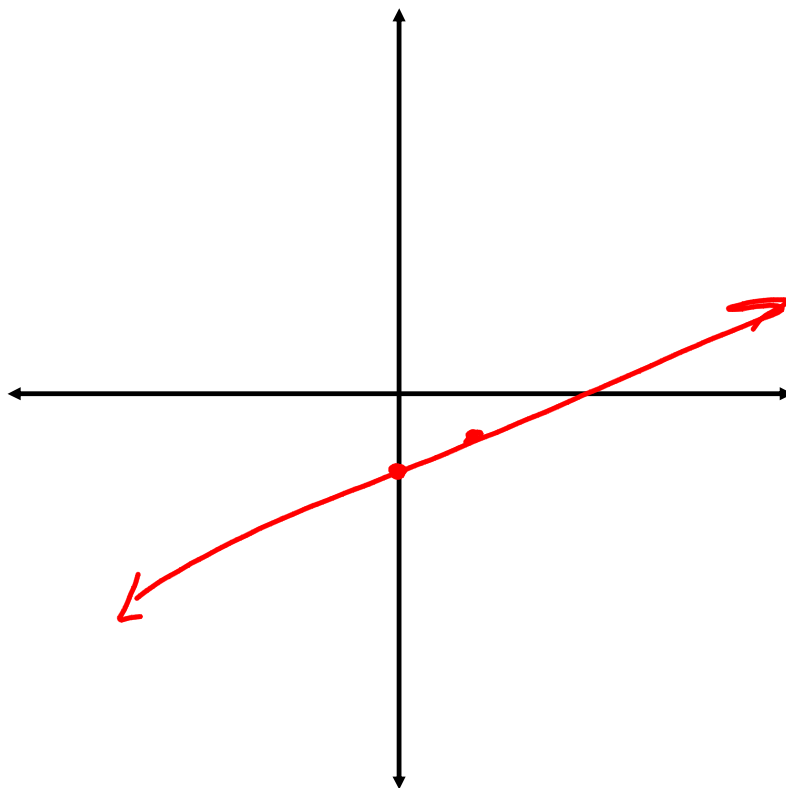
10.

$$y = \frac{1}{5}x - 4$$



11.

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



12.

$$y = 2x + 5$$

