

Warm up:

Graph.

1) $y = 5x - 3$

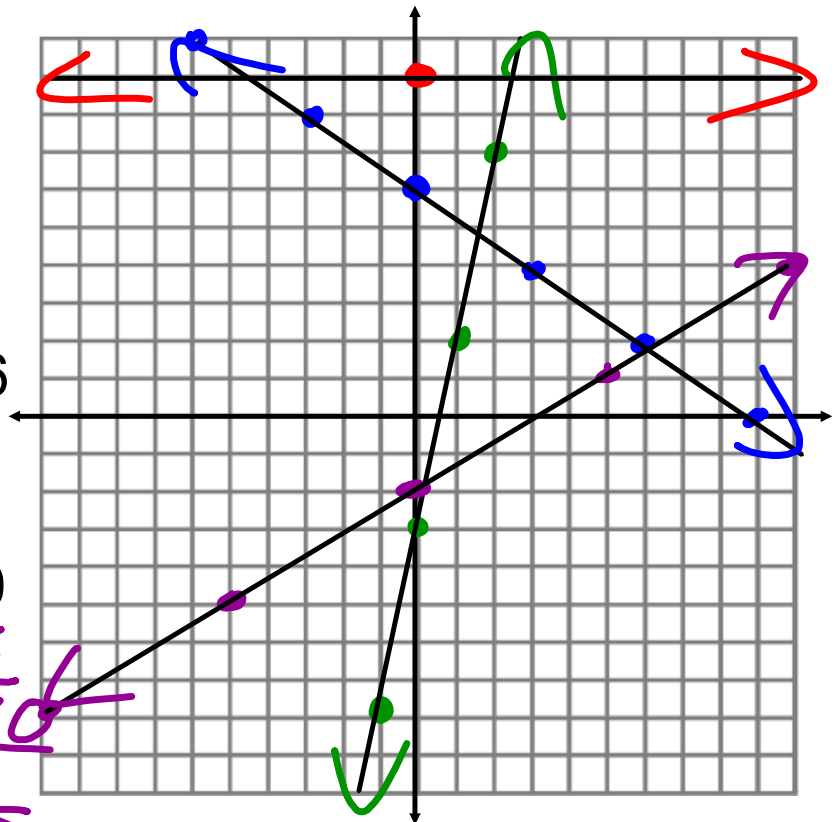
2) $y = (-2/3)x + 6$

3) $y = 9$

4) $-3x + 5y = -10$

$$\begin{array}{r} +3x \quad +3x \\ \hline 5y = 3x - 10 \end{array}$$

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



Desmos

desmos.com/calculator

Showdown

What is the slope of the line $y = 19$?



Write an equation for the line with the following function table.

$$\frac{\Delta y}{\Delta x} = \frac{5-0}{4-2} = \frac{5}{2}$$

$$y = \frac{5}{2}x + b$$

$$0 = \frac{5}{2}(\cancel{2}) + b$$

$$0 = 5 + b$$

$$\begin{array}{r} -5 \\ -5 \\ \hline -5 = b \end{array}$$

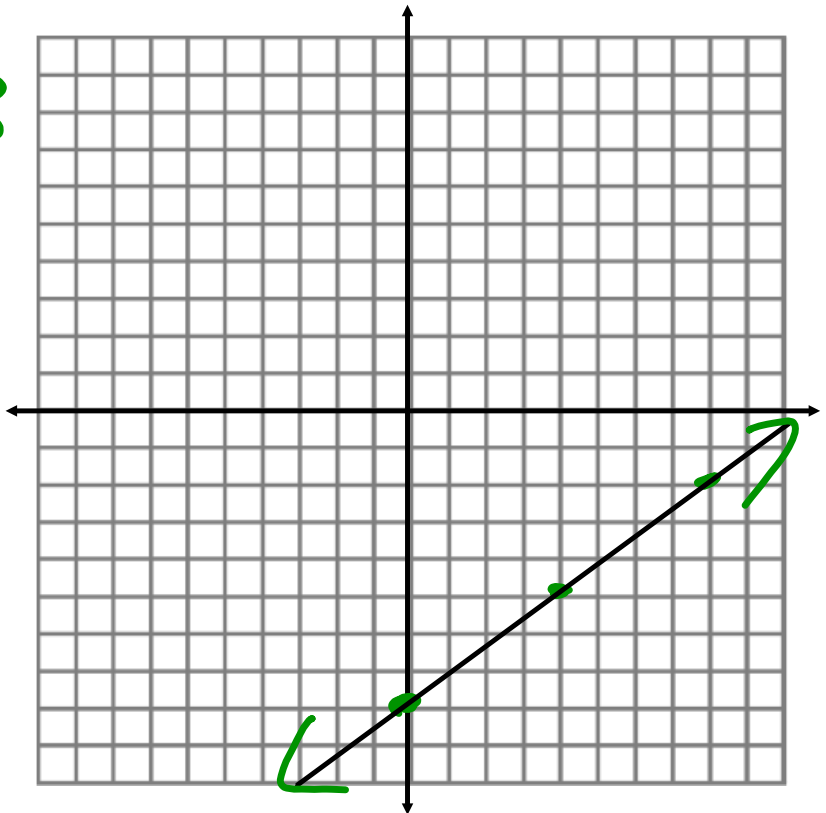
$$-5 = b$$

$$y = \frac{5}{2}x - 5$$

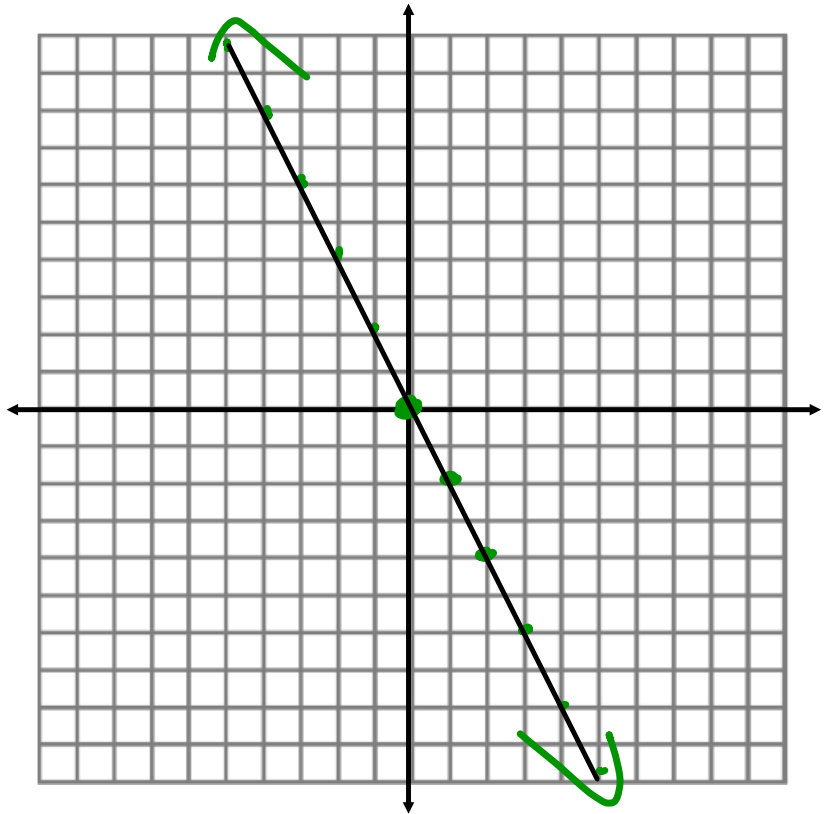
x	y
2	0
4	5
6	10
8	15

$$y = (3/4)x - 8$$

$$y = \frac{3}{4}x - 8$$

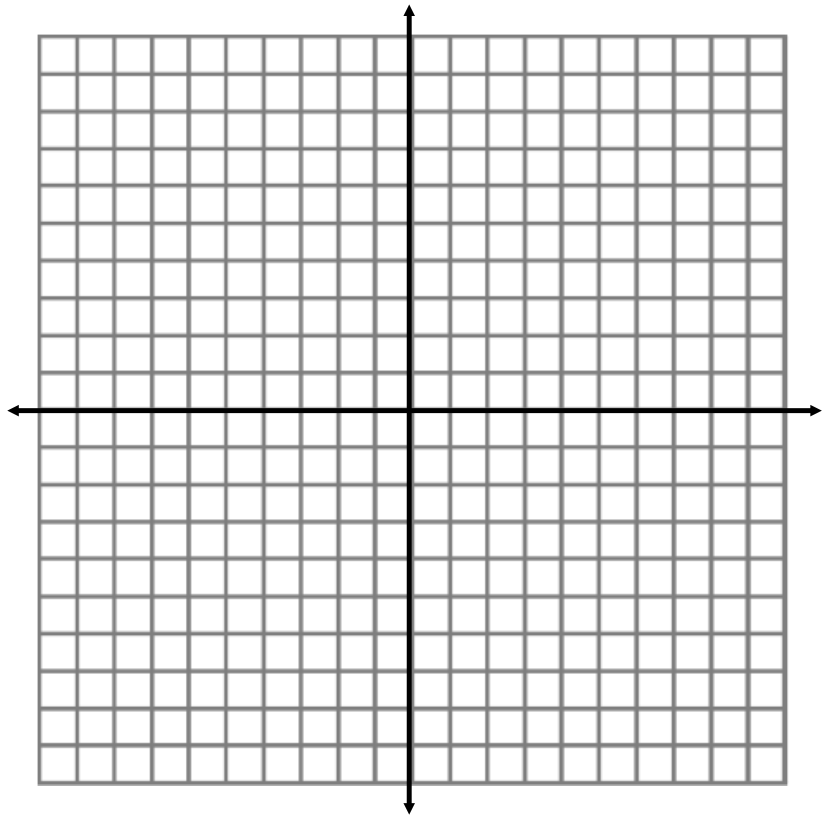


$$y = -2x$$



Write an equation for the line through $(5, 2)$ with slope 3.

$$4x - 3y = -6$$



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

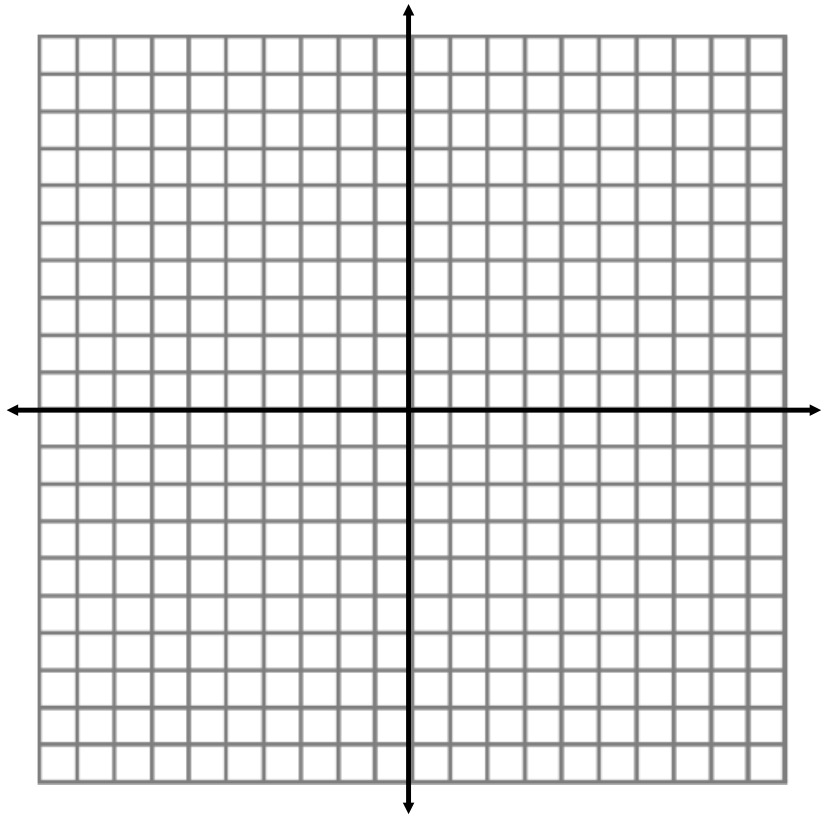
$$y = 3x$$

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

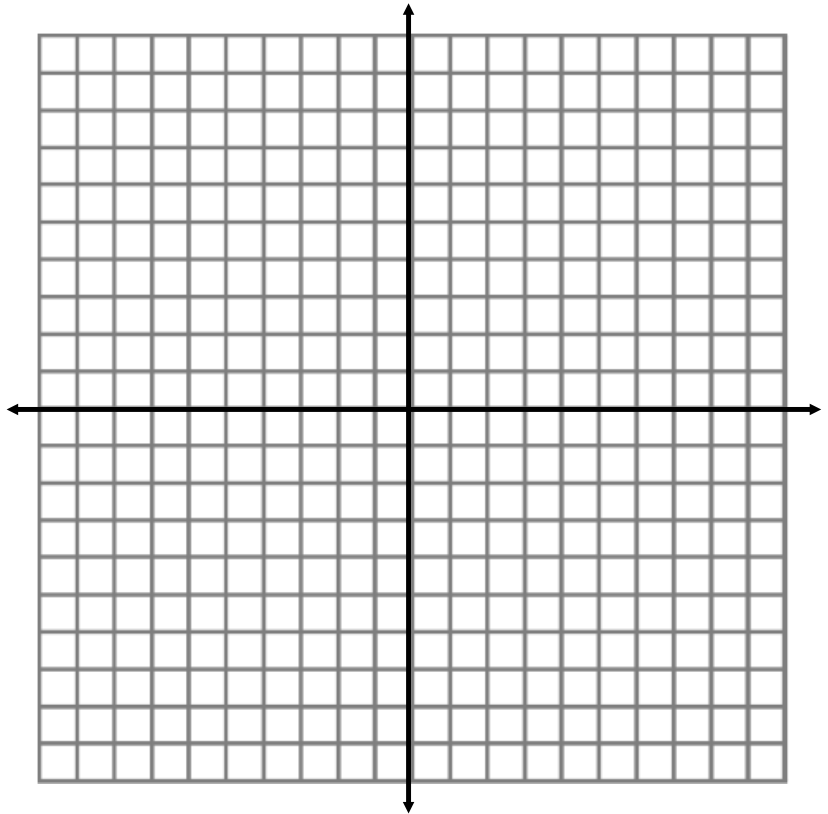
$$y = 6$$

Write the equation for the line with slope $-4/3$
through $(9, -4)$

$$y = -7$$



$$x = 6$$



Write the equation for the line through $(9, -1)$ and $(-5, 13)$.

