February 16, 2012

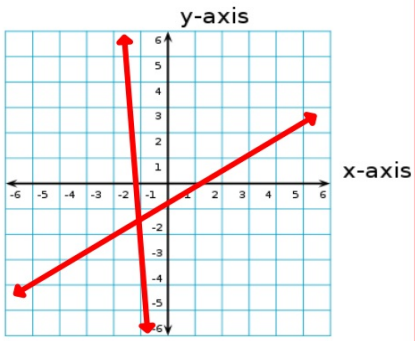
Alg1

Anything to correct?

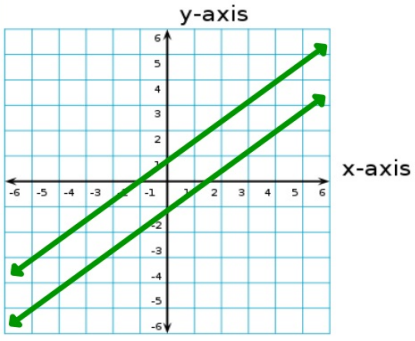
2/16 - Graphing Systems of Equations

If you put 2 lines on the same graph, what are the possibilities?

Intersecting

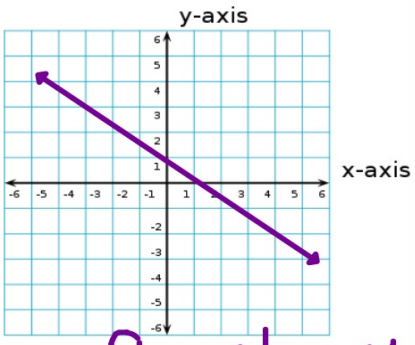


Parallel



never cross

Same Line



infinite # of crosses

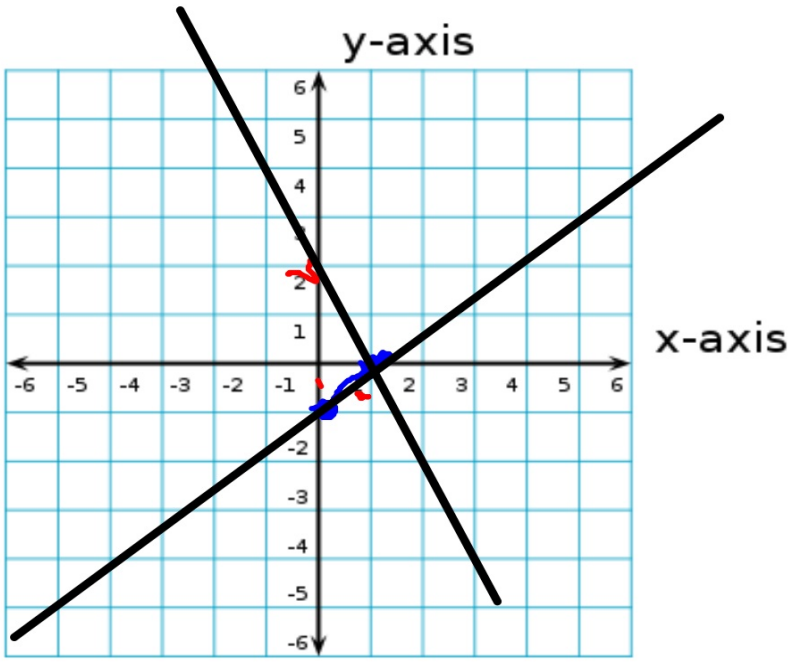
Graph both lines on the same graphs and see where they cross.

$y = mx + b$

$$\begin{cases} y = x - 1 \\ y = -2x + 2 \end{cases}$$

(1, 0)

x y



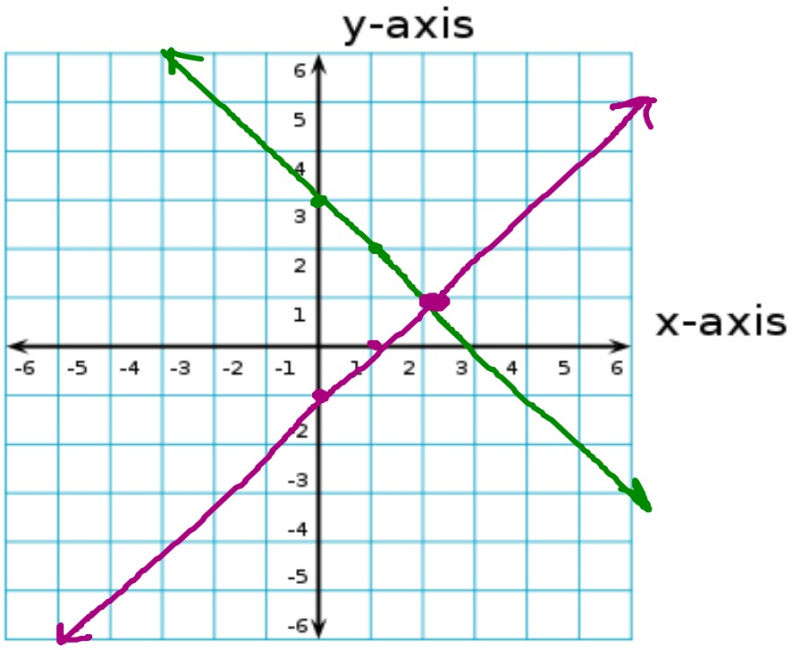
$m = \frac{-1}{1}$

$y = -x + 3$

$y = x - 1$

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

(2, 1)



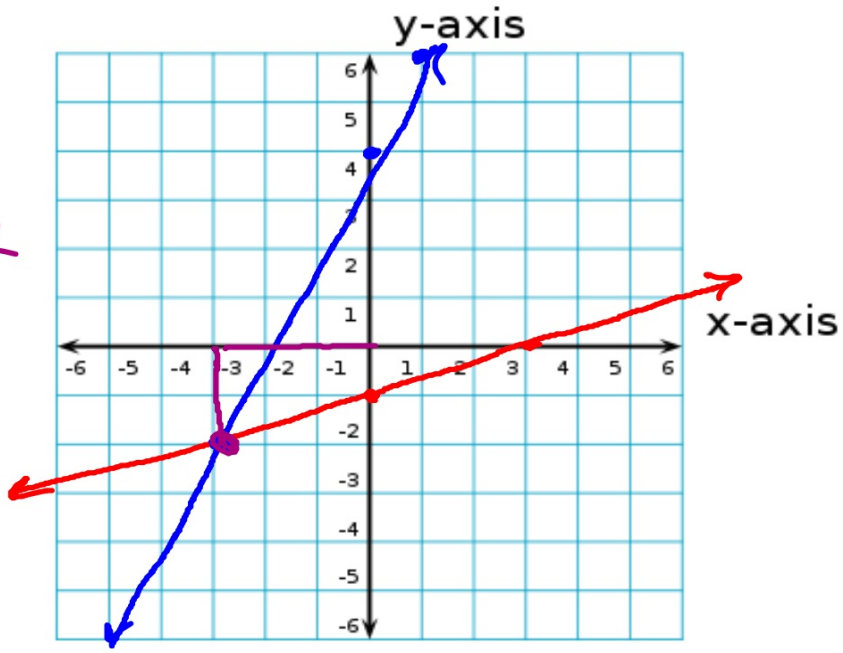
$-2 = \frac{1}{3}(-3) - 1$

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

$$y = 2x + 4$$

$-2 = 2(-3) + 4$

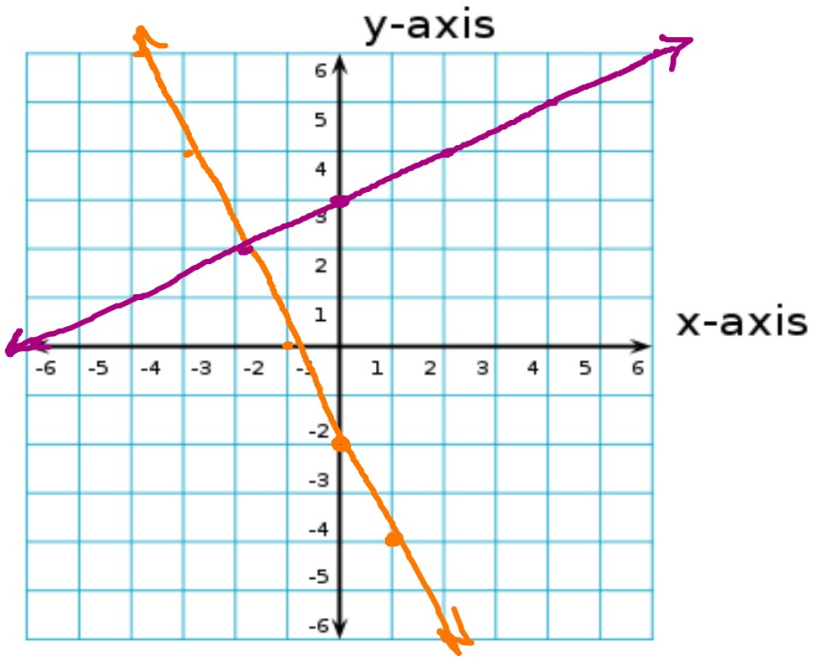
$(-3, -2)$



$$y = -2x - 2$$

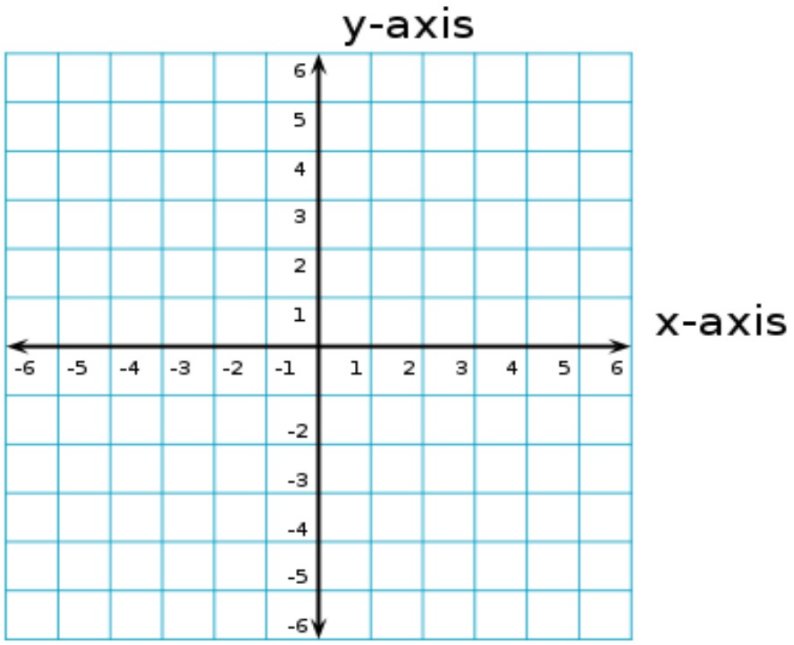
$$y = \frac{1}{2}x + 3$$

$(-2, 2)$



$$y = -\frac{1}{3}x + 4$$

$$y = \frac{4}{3}x - 1$$



Homework

Pink Systems WS1

Due Monday