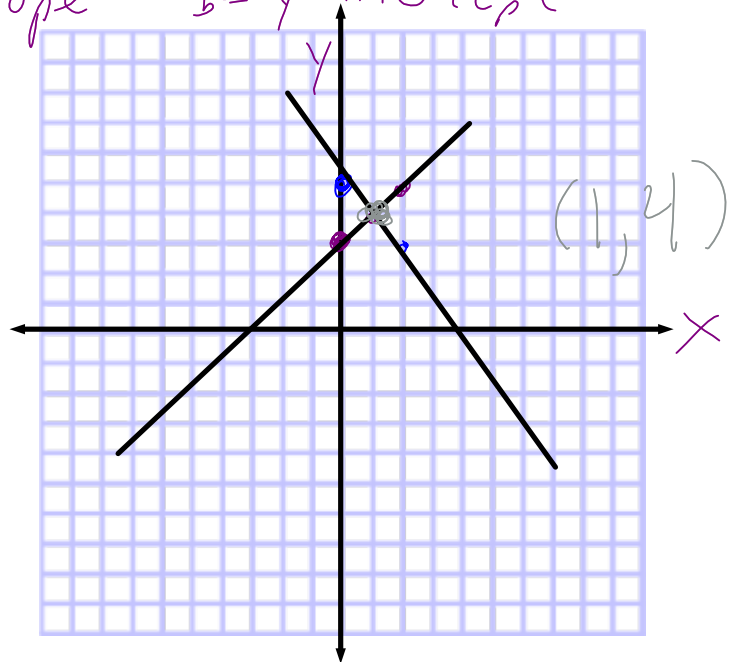


$y = mx + b$ $m = \text{slope}$ $b = \text{y-intercept}$
 1) $y = x + 3$
 $y = -x + 5$



$y = x + 3$
 slope = $\frac{1}{1}$ - up 1, right 1
 y-int = 3 = (0, 3)

$y = -x + 5$
 slope = $-\frac{1}{1}$ y-int = 5 (0, 5)

solution
 (1, 4)

$$3) 4x - 2y = 2$$

$$x = -y + 5$$

$$4x - 2y = 2$$

$$\begin{array}{r} -4x \\ -2y = 2 \end{array}$$

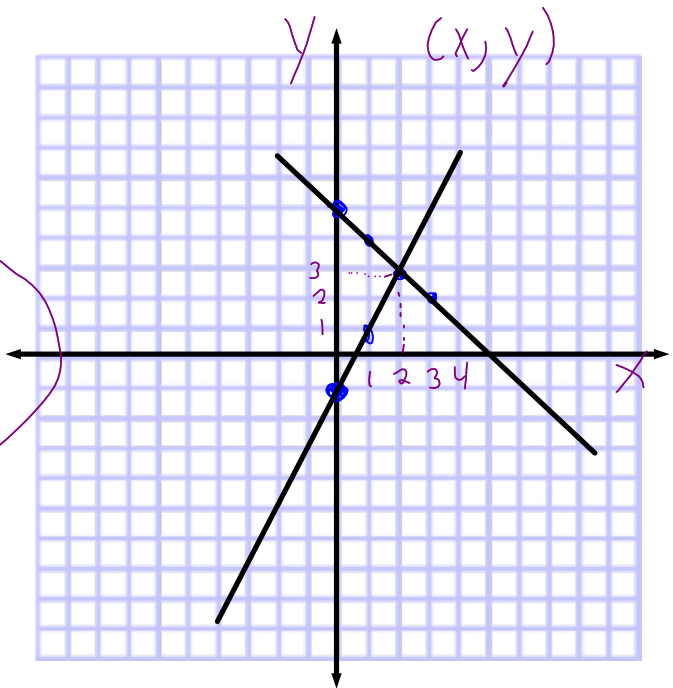
$$\frac{-2y}{-2} = \frac{-4x + 2}{-2}$$

$$y = 2x - 1$$

slope = $\frac{2}{1}$ y-int = -1

$$y = mx + b$$

//
 Solution
 (2, 3)



$$x = -y + 5$$

$$\begin{array}{r} +y \\ x + y = 5 \end{array}$$

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

$$y = -x + 5$$

slope = $-\frac{1}{1}$
 y-int = 5

$$5) \begin{cases} 3x - 2y = 12 \\ 7x + 2y = 8 \end{cases}$$

$$\begin{array}{r} 3x - 2y = 12 \\ -3x \quad -3x \\ \hline -2y = -3x + 12 \\ \frac{-2y}{-2} = \frac{-3x}{-2} + \frac{12}{-2} \end{array}$$

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

slope $\frac{3}{2}$

y-int = -6

$$\begin{array}{r} 7x + 2y = 8 \\ -7x \quad -7x \\ \hline 2y = -7x + 8 \\ \frac{2y}{2} = \frac{-7x}{2} + \frac{8}{2} \end{array}$$

$$y = -\frac{7}{2}x + 4$$

slope = $-\frac{7}{2}$

y-int = 4

