

$$3x + 2y$$
$$x = 5$$
$$y = -2$$
$$3(5) + 2(-2)$$
$$15 - 4$$
$$11$$

Oct 15-8:22 AM

$$3x + 2y = 12$$
$$3(5) + 2(-2) = 12$$
$$15 - 4 = 12$$
$$11 \neq 12$$
$$(5, -2)$$

x y

Oct 15-8:25 AM

$$\begin{array}{r}
 3x + 2y = 12 \\
 -3x \qquad -3x \\
 \hline
 2y = -3x + 12 \\
 \frac{2y}{2} = \frac{-3x}{2} + \frac{12}{2} \\
 \boxed{y = -\frac{3}{2}x + 6}
 \end{array}$$

$y = mx + b$
SADMEP
 $2y = 12 - 3x$

Oct 15-8:27 AM

Need to Know

- Find Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$
- Finding a missing coordinate
- Graphing Equations & Inequalities
- Proving points

$\frac{0}{2} = \text{Zero}$
 $\frac{2}{0} = \text{No / undefined}$

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

~~$\frac{1}{2} = \frac{y-2}{-3}$~~
 $-3 = 2(y-2)$
 $-3 = 2y - 4$
 $+4 \quad +4$
 $\frac{1 = 2y}{2 \quad 2}$

$\boxed{y = 0.5}$

Oct 15-8:31 AM

$(\underset{x_1}{2}, \underset{y_1}{2}) (\underset{x_2}{4}, \underset{y_2}{-3})$ - Find the Slope

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 2}{4 - 2} = \boxed{\frac{-5}{2}}$$

$-2y + 3x \leq 6$ is $(-4, 3)$ in the solution?

$$\begin{aligned} -2(3) + 3(-4) &\leq 6 \\ -6 + -12 &\leq 6 \end{aligned}$$

$$\boxed{-18 \leq 6}$$

Yes!

$$\begin{aligned} -2y + 3x &\leq 6 \\ -3x \quad -3x & \\ \hline -2y &\leq \frac{-3x + 6}{-2} \\ \frac{-2y}{-2} & \frac{-3x + 6}{-2} \\ y &\geq \frac{3}{2}x - 3 \end{aligned}$$