

$$\textcircled{1} \quad (3, -4)$$

$$\textcircled{2} \quad (0, 0)$$

$$\textcircled{3} \quad (6, 8)$$

$$\textcircled{4} \quad (1, 9)$$

$$\textcircled{5} \quad (-1, 3)$$

$$\textcircled{6} \quad (-6, 10)$$

$$\textcircled{7} \quad (6, 8)$$

$$\textcircled{8} \quad (5, 1)$$

$$\textcircled{9} \quad \left(-\frac{1}{2}, \frac{1}{2}\right)$$

9. $3x - 5y = -4$
 $-9x + 7y = 8$

$9x - 15y = -12$
 $+9x + 7y = 8$

$-8y = -4$
 $y = \frac{1}{2}$

$-9x + 7(\frac{1}{2}) = 8$
 $-9x + \frac{7}{2} = 8$
 $-18x + 7 = 16$
 $-18x = 9$
 $x = -\frac{1}{2}$

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

9. The Solution is: $(-\frac{1}{2}, \frac{1}{2})$

4. $4x + 3y = 31$
 $y = 2x + 7$

* $y = (2x + 7)$

$4x + 3(2x + 7) = 31$
 $4x + 6x + 21 = 31$
 $10x + 21 = 31$
 $\frac{10x}{10} = \frac{10}{10}$

$x = 1$

$y = 2(1) + 7$
 $y = 2 + 7$
 $y = 9$

4. The Solution is: $(1, 9)$

5. $12x + y = 15$

$$\begin{array}{l} * -12x + y = 15 \\ 3x + 2y = 3 \end{array} \rightarrow 3x + 2(12x + 15) = 3$$

$$\begin{array}{r} -12x + y = 15 \\ +12x \quad +12x \\ \hline y = (12x + 15) \end{array}$$

$$y = 12(-1) + 15$$

$$y = -12 + 15$$

$$\boxed{y = 3}$$

$$\begin{array}{r} 3x + 24x + 30 = 3 \\ 27x + 30 = 3 \\ -30 \quad -30 \\ \hline 27x = -27 \end{array}$$

$$\frac{27x}{27} = \frac{-27}{27}$$

$$\boxed{x = -1}$$

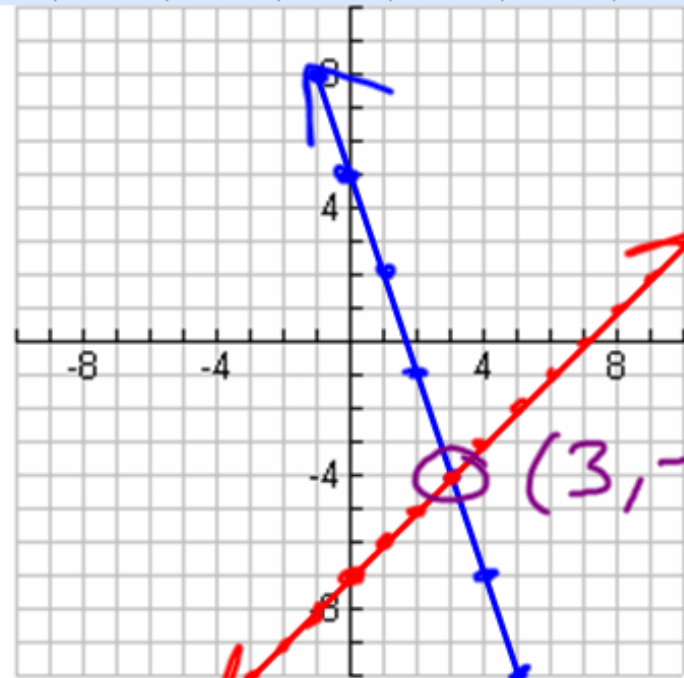
The Solution is: $(-1, 3)$

1 $3x + y = 5$

$-x + y = -7$

$\rightarrow y = -3x + 5$

$\rightarrow y = x - 7$



The Solution is:

$(3, -4)$

Show the Check:

$3x + y = 5$
 $3(3) + (-4) \stackrel{?}{=} 5$
 $9 + (-4) \stackrel{?}{=} 5$
 $5 = 5 \checkmark$

$-x + y = -7$
 $-(3) + (-4) \stackrel{?}{=} -7$
 $-3 + (-4) \stackrel{?}{=} -7$
 $-7 = -7 \checkmark$

$$\begin{array}{l} * \quad x + 2y = 14 \\ \quad 2x + 3y = 18 \end{array}$$

$$\begin{array}{r} x + 2y = 14 \\ -2y - 2x \\ \hline x = (-2y + 14) \\ x = 2(0) + 14 \\ x = -2(0) + 14 \\ \boxed{x = -6} \end{array}$$

$$\begin{array}{l} \rightarrow 2(-2y + 14) + 3y = 18 \\ -4y + 28 + 3y = 18 \\ -1y + 28 = 18 \\ \quad -28 \quad -28 \\ \hline -1y = -10 \\ \quad -1 \quad -1 \\ \hline y = 10 \\ \boxed{y = 10} \end{array}$$

6. The Solution is: (-6, 10)

$$3 \quad 2x + 3y = 36$$

$$-2x + y = -4$$

$$\rightarrow 2x + 3y = 36$$

$$\begin{array}{r} -2x \\ \hline 2x + 3y = 36 \\ -2x \\ \hline 3y = -2x + 36 \\ \frac{3y}{3} = \frac{-2x + 36}{3} \end{array}$$

$$y = -\frac{2}{3}x + 12$$

$$\rightarrow y = 2x - 4 \quad (6, 8)$$

The Solution is: _____

$$2x + 3y = 36$$

$$2(6) + 3(8) \stackrel{?}{=} 36$$

$$12 + 24 \stackrel{?}{=} 36$$

$$36 = 36 \checkmark$$

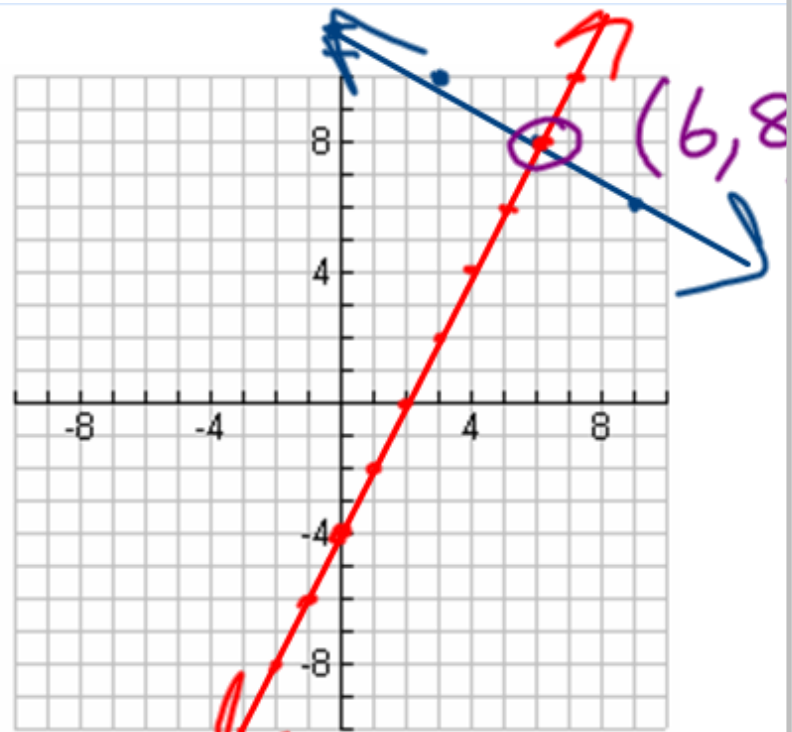
Show the Check:

$$-2x + y = -4$$

$$-2(6) + (8) \stackrel{?}{=} -4$$

$$-12 + 8 \stackrel{?}{=} -4$$

$$-4 = -4 \checkmark$$



$$\textcircled{2} \begin{cases} 6x - 2y = 4 \\ 12x - 6y = 8 \end{cases}$$

$$\begin{array}{r} 6x - 2y = 4 \\ -6x \quad -6x \\ \hline \end{array}$$

$$\begin{array}{r} -2y = -6x + 4 \\ \hline -2 \quad -2 \quad -2 \end{array}$$

$$y = 3x - 2$$

$$\begin{array}{r} 12x - 6y = 8 \\ -12x \quad -12x \\ \hline \end{array}$$

$$\begin{array}{r} -6y = -12x + 8 \\ \hline -6 \quad -6 \quad -6 \end{array}$$

$$y = 2x - \frac{4}{3}$$

$$3 \left(\begin{array}{r} 3x - 2 = 2x - \frac{4}{3} \\ 9x - 6 = 6x - 4 \end{array} \right)$$

$$\begin{array}{r} -6x \quad -6x \\ 3x - 6 = -4 \\ \hline +6 \quad +6 \end{array}$$

$$\frac{3x}{3} = \frac{2}{3}$$

$$x = \frac{2}{3}$$

$$y = 3 \left(\frac{2}{3} \right) - 2$$

$$y = 2 - 2$$

$$y = 0$$

O.T.L.

- Turn in 7.1 - 7.3 Quiz
Corrected

- Ch. 7 Test is now Th^{urs.}