

Warm Up

Week 7

Solve by Substitution

$$x - 2y = -25 \rightarrow \begin{array}{r} x - 2y = -25 \\ +2y \quad +2y \\ \hline \end{array}$$

$$3x - y = 0$$

$$3(2y - 25) - y = 0$$

$$6y - 75 - y = 0$$

$$5y - 75 = 0$$

$$+75 \quad +75$$

$$\underline{5y = 75}$$

$$\frac{5}{5} \quad \frac{75}{5}$$

$$\underline{y = 15}$$

$$x = -(2y - 25)$$

$$x = -2(15) - 25$$

$$\underline{x = 5}$$

$$(5, 15)$$

$$3(5) - 15 = 0$$

$$0 = 0 \checkmark$$

$$\therefore \text{Yes, } (5, 15) \text{ is sol'n}$$

7.3 Quiz Tomorrow

$$\begin{array}{r} 3(2x - 3y = 0) \\ -2(3x - 2y = 5) \end{array} \rightarrow \begin{array}{r} 6x - 9y = 0 \\ -6x + 4y = -10 \\ \hline \end{array}$$

$$\begin{array}{r} -5y = -10 \\ \underline{-5} \quad \underline{-5} \\ \hline \end{array}$$

$$\underline{y = 2}$$

$$2x - 3(2) = 0$$

$$2x - 6 = 0$$

$$+6 \quad +6$$

$$\underline{2x = 6}$$

$$\frac{2}{2} \quad \frac{6}{2} \quad \underline{x = 3}$$

$$\begin{array}{l} \left. \begin{array}{l} 3(x-y=0) \\ -3x-y=2 \end{array} \right\} \rightarrow \begin{array}{l} 3x-3y=0 \\ \underline{-3x-y=2} \\ -4y=2 \\ \underline{-4 \quad -4} \\ y = -\frac{1}{2} \end{array} \\ \\ \begin{array}{l} x + \frac{+1}{2} = 0 \\ \quad -\frac{1}{2} \quad -\frac{1}{2} \\ \hline x = -\frac{1}{2} \end{array} \end{array}$$

What Happened?

Review

*Graphing

*Substitution

*Linear Combinations

Homework

Review for quiz 7.1-7.3

*Linear Combinations wkst

*7.3 p.405 #8-22even

↳ put in Basket