

Warm Up

Week 7

What Happened Here?

(write how to fix the mistakes)

Was out of 25 pts

7.3 Quiz

A - 22.5

B - 20

C - 17.5

D - 15

7.3 Linear Combinations

* Arrange Equations in Columns of Like Terms

7.3
p. 14 OR p. 18

$$\begin{array}{l}
 1) \quad 3y = -6 - 4x \\
 * \quad 7x + 3y = -15 \\
 \quad -7x \quad \quad -7x \\
 \quad \quad \quad 3y = -15 - 7x
 \end{array}$$

$$\begin{array}{r}
 \rightarrow -1 \left(\begin{array}{l} 3y = -6 - 4x \\ 3y = -15 - 7x \end{array} \right) \\
 \quad \quad \quad + \\
 \quad \quad \quad \underline{-3y = 6 + 4x}
 \end{array}$$

$$3y = -6 - 4(-3)$$

$$3y = -6 + 12$$

$$\frac{3y}{3} = \frac{6}{3}$$

$$y = 2$$

$$7(-3) + 3(2) = -15$$

$$-15 = -15 \checkmark$$

$$\therefore \text{Yes, } (-3, 2) \text{ is a solution}$$

$$\begin{array}{r}
 0 = -9 - 3x \\
 +9 \quad +9
 \end{array}$$

$$9 = -3x$$

$$\frac{9}{-3} = \frac{-3x}{-3}$$

$$x = -3$$

$$2) \quad x - 3y - 8 = 0$$

$$4y = 11 - 3x$$

$$3) \quad (3y = -8 + x)$$

* if go over =
sign is going to
switch
(+ or -)

$$\begin{array}{r} 4y = 11 - 3x \\ + 9y = -24 + 3x \\ \hline 13y = -13 \\ \frac{13y}{13} = \frac{-13}{13} \\ y = -1 \end{array}$$

$$\begin{array}{r} 4(-1) = 11 - 3x \\ -4 = 11 - 3x \\ -11 = -3x \\ \frac{-11}{-3} = \frac{-3x}{-3} \\ x = 5 \end{array}$$

$$\begin{array}{l} (5, -1) \\ 5 - 3(-1) - 8 = 0 \\ 0 = 0 \\ \therefore \text{yes, } (5, -1) \\ \text{is sol} \end{array}$$

7.3 p.414

#25-30, 32-38 even