

Name

9/12 or 9/13

Alg. I

Solve Equations (with Variables on Both Sides)

I can solve equations with variables on both sides.

$$6) 8y - 6 = \frac{2}{3}(6y + 15)$$

$$\frac{2}{3} \cdot \frac{6}{1} = \frac{12}{3} = 4$$
$$\frac{2}{3} \cdot \frac{15}{1} = \frac{30}{3} = 10$$

$$8y - 6 = 4y + 10$$
$$\begin{array}{r} -4y \quad -4y \\ \hline 4y - 6 = 10 \\ +6 \quad +6 \end{array}$$

$$4y = 16$$
$$\frac{4y}{4} = \frac{16}{4}$$

$$\boxed{y = 4}$$

Ch. 2 Quiz 9/21

x 9/22 Ch. 1/2

Test 9/23 or

9/26

Example 3:

$$7) 50 + 6x = 2(67 + (-4x))$$

$$50 + 6x = 134 - 8x$$
$$\begin{array}{r} +8x \quad +8x \\ \hline 50 + 14x = 134 \\ -50 \quad -50 \\ \hline 14x = 84 \\ 14 \quad 14 \end{array}$$

$$50 + 14x = 134$$

$$-50 \quad -50$$

$$14x = 84$$
$$\frac{14x}{14} = \frac{84}{14}$$

$$\boxed{x = 6; 6 \text{ years}}$$