

8.8 Quiz Review

Solve each equation.

$$5(x - 3) + 1 = 16$$

$$5x - 15 + 1 = 16$$

$$5x - 14 = 16$$

$$\frac{5x}{5} = \frac{30}{5}$$

$$x = 6$$

8.8 Quiz Review

Solve each equation.

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

$$3c - 12 = 4c - 24$$

$$-12 = c - 24$$

$$12 = c$$

8.8 Quiz Review

Solve each equation.

$$2(x + 2) - 4 = 2x$$

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

$$\begin{array}{r} 2x = 2x \\ -2x \quad -2x \\ \hline 0 = 0 \end{array}$$

ALL  
REAL  
NUMBERS

 $\mathbb{R}$ 
8.8 Quiz Review

Solve each equation.

$$5 + 3y = 3(2 + y)$$

$$\begin{array}{r} 5 + 3y = 6 + 3y \\ -3y \quad -3y \\ \hline 5 = 6 \end{array}$$

NO  
SOLUTION

 $\emptyset$

### 8.8 Quiz Review

Solve each inequality.

$$-4g - 5 \geq -17$$

$$+5 \quad +5$$

$$\frac{-4g}{-4} \geq \frac{-12}{-4}$$

$$g \leq 3$$

### 8.8 Quiz Review

Solve each inequality.

$$18 > -12 + 6m$$

$$+12 \quad +12$$

$$\frac{30}{6} > \frac{6m}{6}$$

$$5 > m$$

$$m < 5$$

8.8 Quiz Review

Solve each inequality.

$$24 - 3c \leq 15$$

$$\begin{array}{r} -24 \\ -24 \end{array}$$

$$\frac{-3c \leq -9}{-3 \quad -3}$$

$$c \geq 3$$

8.8 Quiz Review

Solve each inequality.

$$\frac{2}{3}k + 9 < 5$$

$$\begin{array}{r} -9 \\ -9 \end{array}$$

$$\frac{3}{2} \cdot \frac{2}{3}k < -4 \cdot \frac{3}{2}$$

$$k < -6$$

8.8 Quiz Review

Let  $c$  be the cars he must sell

A car sales associate receives a monthly salary of \$1700 a month plus \$140 for every car he sells. How many cars must he sell monthly to earn at least \$4500?

$$1700 + 140c \geq 4500$$

$$\begin{array}{r} -1700 \end{array}$$

$$\frac{140c}{140} \geq \frac{2800}{140}$$

$$c \geq 20 \text{ cars}$$

8.8 Quiz Review

Let  $c$  be the cars he details.

At the car wash, Xander receives \$200 a week plus \$10 for every car he details. How many cars must he detail weekly to earn at least \$350 a week?

$$200 + 10c \geq 350$$

$$\begin{array}{r} -200 \end{array}$$

$$\frac{10c}{10} \geq \frac{150}{10}$$

$$c \geq 15 \text{ cars}$$