Identity Statements and No Solution Statements

Solve the following equations for x

$$2x - 4 = 2(x - 2) \qquad\qquad 3(x + 2) = 3x - 3$$

Solve the following equations for x

$$2x - 5x + 5 = -3(x - 1) + 2 \qquad\qquad -(x + 2) = 3x - 4x + 2$$

Solve the following equations for x

$$1.5x + 4.75 = 1.25x + 0.25x$$

Solve the following equations for x

$$\frac{2x}{3} - \frac{x}{5} = \frac{7x}{15}$$

Identity Statements and No Solution Statements
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Solve the following equations for x

$$2x - 4 \overset{?}{=} 2(x - 2)$$
$$2x - 4 \overset{?}{=} 2x - 4$$
$$\frac{-2x \qquad -2x}{-4 \overset{?}{=} -4}$$

True Statement

Identity Statement

Solution: All Real Numbers

$$3(x + 2) \overset{?}{=} 3x - 3$$
$$3x + 6 \overset{?}{=} 3x - 3$$
$$\frac{-3x \qquad -3x}{6 \overset{?}{=} -3}$$

Untrue Statement

No Solution Statement

Solution: No Solution