

$$3x = 3(x+4)$$

$$\begin{array}{r} 3x = 3x + 12 \\ -3x \quad -3x \end{array}$$

$0 \neq 12$
no solution

$$2x + 10 = 2(x+5)$$

$$\begin{array}{r} 2x + 10 = 2x + 10 \\ -2x \quad -10 \quad -2x \quad -10 \end{array}$$

$0 = 0$ identity

$$3x = 3x + 12$$

$$a) 9z + 12 = 9(z + 3)$$

$$b) 7w + 1 = 8w + 1$$

$$c) 3(2a + 2) = 2(3a + 3)$$

$$3.4 \neq 30 - 44, 64$$

$$\begin{array}{r} 4x + 6 \\ -2x \end{array} = \begin{array}{r} 2x - 8 \\ -2x \end{array}$$

$$\begin{array}{r} 2x + 6 \\ -6 \end{array} = \begin{array}{r} -8 \\ -6 \end{array}$$

$$\begin{array}{r} 2x \\ 2 \end{array} = \frac{-14}{2}$$

$$x = -7$$