

$$1. \quad 3x = 2x + 18$$

$$\Rightarrow 3x - 2x = 18$$

$$\Rightarrow x = 18$$

$$2. \quad 5t - 3 = 3t - 5$$

$$\Rightarrow 5t - 3t = -5 + 3$$

$$\Rightarrow 2t = -2$$

$$\Rightarrow t = -\frac{2}{2}$$

$$\Rightarrow t = -1$$

$$3. \quad 5x + 9 = 5 + 3x$$

$$\Rightarrow 5x - 3x = 5 - 9$$

$$\Rightarrow 2x = -4$$

$$\Rightarrow x = -\frac{4}{2}$$

$$\Rightarrow x = -2$$

$$4. \quad 4z + 3 = 6 + 2z$$

$$\Rightarrow 4z - 2z = 6 - 3$$

$$\Rightarrow 2z = 3$$

$$\Rightarrow z = \frac{3}{2}$$

$$5. \quad 2x - 1 = 14 - x$$

$$\Rightarrow 2x + x = 14 + 1$$

$$\Rightarrow 3x = 15$$

$$\Rightarrow x = \frac{15}{3}$$

$$\Rightarrow x = 5$$

$$6. \quad 8x + 4 = 3(x - 1) + 7$$

$$\Rightarrow 8x + 4 = 3x - 3 + 7$$

$$\Rightarrow 8x + 4 = 3x + 4$$

$$\Rightarrow 8x - 3x = 4 - 4$$

$$\Rightarrow 5x = 0$$

$$\Rightarrow x = \frac{0}{5}$$

$$\Rightarrow x = 0$$

$$7. \quad x = \frac{4}{5}(x + 10)$$

$$\Rightarrow 5x = 4x + 40$$

$$\Rightarrow 5x - 4x = 40$$

$$\Rightarrow x = 40$$