## LINEAR EQUATIONS IN ONE VARIABLE

To solve a linear equation in one variable is to find the value of the variable that will make the equation true.

## Example 1

Solve:

(a) 
$$5x-3=2x+9$$

**(b)** 
$$5(x-3)-3(x-2)=19$$

Solution

(a) 
$$5x-3=2x+9$$

$$5x - 3 - 2x = 9$$

$$3x - 3 = 9$$

$$3x = 12$$

$$x = 4$$

**(b)** 
$$5(x-3)-3(x-2)=19$$

$$5x - 15 - 3x + 6 = 19$$

$$2x - 9 = 19$$

$$2x = 28$$

$$x = 14$$