

Example 1

Solve the equation.

$$x + 3 = 9$$

Subtraction Property of Equality

For any numbers a , b , and c ,
if $a = b$,
then $a - c = b - c$.

Remember as:

When you subtract the same quantity from both sides of an equation, you still have equality.

Example 2.2

Solve the equation.

$$y + 37 = -13$$

Example 2

Solve the equation.

$$x - 5 = 13$$

Addition Property of Equality

For any numbers a , b , and c ,
if $a = b$,
then $a + c = b + c$.

Remember as:

When you add the same quantity to both sides of an equation, you still have equality.

Example 2.3

Solve the equation.

$$a - 28 = -37$$