

Expanding and Simplifying

$$3(x - 15) - 2(x + 3)$$

$$3x - 45 - 2x - 6$$

$$3x - 45 - 2x - 6$$

$$x - 51$$

STEP 1:

Multiply the variable on the outside of the bracket by each term inside the bracket.

STEP 2:

Simplify by gathering the like terms.

$$(x - 5)(x + 2)$$

$$x^2 - 10 + 2x - 5x$$

$$x^2 - 10 + 2x - 5x$$

$$x^2 - 3x - 10$$

STEP 1:

Use the smiley face method and multiply along each line.

STEP 2:

Simplify by gathering the like terms.