

Solving Equations with Variables on Both Sides

Step 1: Combine like terms on each side of the equation.

Step 2: Use opposite operations to move the variables to one side of the equation.

Step 3: Solve the equation by isolating the variable.

Step 4: Check your answer by substituting the solution into the original equation.

Directions: Solve each equation and check your solution.

Check

1. $2x - 3 = 8x - 9$

2. $2 + 6y = -2y - 14$

3. $-8x + 3 = -2x + 10 - 5x$

4. $5x - 7 = -15x - 41 + 3x$

5. $55 - (5 - x) = -6x + 8$