

Section 1.6: Solving Linear Equations

Steps:

1. Distribute if the equation has parentheses
2. Combine any like terms
3. Isolate the variable by doing addition/subtraction before multiplication/division

Examples:

1. Solve for x.

$$x - 3 = 12$$

2. Solve for x.

$$3(x + 2) - 5 = 2(x - 4) + 16$$

3. Solve for x.

$$-\frac{4}{5}x + 6 = 10$$

4. Solve for c:

$$\frac{1}{5}(4c + 10) = \frac{1}{2}(6 - 2c)$$

5. Solve for x.

$$2x + \frac{x + 3}{3} + \frac{x - 2}{4} = -\frac{5}{6}$$

6. Solve for z.

$$W = 3u - 7z$$

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7. Solve for C.

$$F = \frac{9}{5}C + 32$$