

Solving Quadratic Equations by Factoring

Standard Form of a Quadratic Equation: $Ax^2 + Bx + C = 0$

Steps:

Example $3n^2 - 3n - 15 = 3$

1. Set the equation equal to zero.

$$3n^2 - 3n - 18 = 0$$

2. Factor.

$$(n - 3)(n + 2) = 0$$

3. Set each factor equal to zero.

$$n - 3 = 0 \quad n + 2 = 0$$

4. Solve each factor for x .

$$n = 3, -2$$