

Zero Product Property

Procedure

1. Place everything on one side and zero on the other side.
2. Factor completely
3. Set each factor equal to zero
4. Solve the resulting equation

$$x^2 = n, x = \pm n$$

Procedure

1. Isolate the squared term
2. Take square root of both sides
3. Solve the 2 resulting equations

Completing the Square

The coefficient of the quadratic term must be 1

Procedure

1. Place the constant on the other side of the equation
2. Take half the middle term and square it
3. Add that result to both sides of the equation
4. Factor
5. Solve the resulting equation

Quadratic Equation

Procedure

1. Place everything on one side of the equation, zero on the other side
2. Identify a , b and c
3. Substitute those values into the Quadratic Formula
4. Simplify