

A quadratic equation is an equation in the form

$$0 = ax^2 + bx + c$$

Quadratic Equations can be solved by...



1. Taking the Square Root of both sides
2. Factoring and use the **Zero** Product Rule
3. Quadratic Formula
4. Completing the Square

Solve the following equations by taking the square root.

1. Isolate the squared term.
2. Take square root of both sides.

$$x^2 = 81$$

$$y^2 - 16 = 0$$

$$b^2 - 49 = 0$$

Solve the following equations by taking the square root.

1. Isolate the squared term.
2. Take square root of both sides.

$$3k^2 - 27 = 0$$

$$2x^2 + 72 = 0$$

$$4z^2 - 25 = 0$$

Solve the following equations by taking the square root.

1. Isolate the squared term.
2. Take square root of both sides.

$$25 - x^2 = 0$$

$$9a^2 - 1 = 0$$

$$4b^2 + 16 = 0$$