Solving Quadratic Equations by Quadratic Formula

Name _____

Date _____ Period _____

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 Using the Zero Product Rule
3. Quadratic Formula
4. Completing the Square

A quadratic equation is an equation in the form

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

$a = ?$ $b = ?$ $c = ?$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve the following quadratics by the quadratic formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$$0 = x^2 + 7x + 10$$

Solve the following quadratics by the quadratic formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$$0 = 2x^2 - 3x - 9$$

Solve the following quadratics by the quadratic formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$0 = 3x^2 + 2x - 6$

Solve the following quadratics by the quadratic formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$0 = 5x^2 + 13x - 1$

A quadratic equation is an equation in the form

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

$a = ?$ $b = ?$ $c = ?$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$