

12.3

The Quadratic Formula

Quadratic Equation Review

$$5x^2 + 10x + 6 = 0$$

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

Quadratic Formula

This formula helps you solve for x

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

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

Solving by quadratic formula

1) $x^2 - 24x + 23 = 0$

Solving by quadratic formula

$$2) \quad x^2 - 20x + 19 = 0$$

Solving by quadratic formula

$$3) \quad 3x^2 + x - 4 = 0$$

$$4) \quad 3x^2 = 6x - 1$$

$$5) \quad x^2 = x - 8$$