

# Quadratic Formula Examples

## Example 1

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

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

$$x = \frac{-5 \pm \sqrt{-5^2 - 4(1)(6)}}{2(1)}$$

$$x = \frac{-5 \pm \sqrt{25 - 24}}{2}$$

$$x = \frac{-5 \pm \sqrt{1}}{2} = \frac{-5 \pm 1}{2}$$

$$x = \frac{-5 + 1}{2} \quad x = \frac{-5 - 1}{2}$$

$$x = \frac{-4}{2}$$

$$x = \frac{-6}{2}$$

$$x = -2$$

$$x = -3$$

## Example 2

$$2x^2 - 5x + 3 = 0$$

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

$$x = \frac{(-5) \pm \sqrt{-5^2 - 4(2)(3)}}{2(2)}$$

$$x = \frac{5 \pm \sqrt{25 - 24}}{4}$$

$$x = \frac{5 \pm \sqrt{1}}{4} = \frac{5 \pm 1}{4}$$

$$x = \frac{5 + 1}{4} \quad x = \frac{5 - 1}{4}$$

$$x = \frac{6}{4}$$

$$x = \frac{4}{4}$$

$$x = \frac{1}{2}$$

$$x = 1$$

## Example 3

$$3x^2 - 7x + 2 = 0$$

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

$$x = \frac{(-7) \pm \sqrt{-7^2 - 4(3)(2)}}{2(3)}$$

$$x = \frac{7 \pm \sqrt{49 - 24}}{6}$$

$$x = \frac{7 \pm \sqrt{25}}{6} = \frac{7 \pm 5}{6}$$

$$x = \frac{7 + 5}{6} \quad x = \frac{7 - 5}{6}$$

$$x = \frac{12}{6}$$

$$x = \frac{2}{6}$$

$$x = 2$$

$$x = \frac{1}{3}$$

## Answers Algebra 2 A Quadratic Puzzle

**S Ashworth**

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