

7.2 Solving Quadratic Equations by Factoring

Once a quadratic equation has been factored, students will use the zero product property to determine the roots. For example, $5x^2 + 14x - 3 = 0$ in factored form is:

$$(5x - 1)(x + 3) = 0$$

this means either $5x - 1 = 0$ or $x + 3 = 0$.

Solving each factor we get:

$$\begin{array}{l} 5x - 1 = 0 \\ 5x = 1 \\ \frac{5x}{5} = \frac{1}{5} \\ x = \frac{1}{5} \\ \left(\frac{1}{5}, 0\right) \end{array} \quad \begin{array}{l} x + 3 = 0 \\ x = -3 \\ (-3, 0) \end{array}$$

Example 1:

The factors of the equation $x^2 + 5x + 6 = 0$ are $(x + 2)(x + 3)$. Use the zero product property to find the roots.

$$\begin{array}{l} x + 2 = 0 \\ x = -2 \\ (-2, 0) \end{array} \quad \begin{array}{l} x + 3 = 0 \\ x = -3 \\ (-3, 0) \end{array}$$

Algebra 2 Quadratic Equations Answer Key

Jicheng Xie



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