[06-01-27-T9]

Quadratics

■ **For each of the following:**

A. Solve by factoring

B. Solve by completing the square

C. Solve by using the quadratic formula

[1] $x^2 - 8x + 15 = 0$

[2] $x^2 - 2x - 35 = 0$

[3] $x^2 - 4x + 1 = 0$

[4] $2x^2 + 5x - 3 = 0$

[5] $2x^2 - 7x - 15 = 0$

[6] $-3x^2 + 7x - 2 = 0$

[7] $x^2 - 5x + 6 = 0$

[8] $6x^2 + 5x - 6 = 0$

[9] $9x^2 - 6x + 1 = 1$

[10] $x^2 - 16 = 0$

Answers

[1] $\{\{x \to 3\}, \{x \to 5\}\}$

[2] $\{\{x \to -5\}, \{x \to 7\}\}$

[3] $\{\{x \to 1\}, \{x \to 3\}\}$

[4] $\left\{\{x \to -3\}, \left\{x \to \frac{1}{2}\right\}\right\}$

[5] $\left\{\left\{x \to -\frac{3}{2}\right\}, \{x \to 5\}\right\}$

[6] $\left\{\left\{x \to \frac{1}{3}\right\}, \{x \to 2\}\right\}$

[7] $\{\{x \to 2\}, \{x \to 3\}\}$

[8] $\left\{\left\{x \to -\frac{3}{2}\right\}, \left\{x \to \frac{2}{3}\right\}\right\}$

[9] $\left\{\{x \to 0\}, \left\{x \to \frac{2}{3}\right\}\right\}$

[10] $\{\{x \to -4\}, \{x \to 4\}\}$