

## QUADRATIC FORMULA

Solve by factoring.

$$1) x^2 + 2x = 15$$

An alternate way to solve a quadratic equation is by using the **Quadratic Formula**.

$$\text{If } ax^2 + bx + c = 0, \text{ then } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Solve each quadratic equation using the quadratic formula.

$$2) x^2 + 7x - 12 = 0 \quad a = \underline{\hspace{2cm}}; b = \underline{\hspace{2cm}}; c = \underline{\hspace{2cm}}$$

$$3) -2x^2 - 4x + 3 = 0 \quad a = \underline{\hspace{2cm}}; b = \underline{\hspace{2cm}}; c = \underline{\hspace{2cm}}$$

$$4) 6x^2 - 3x = 7 \quad a = \underline{\hspace{2cm}}; b = \underline{\hspace{2cm}}; c = \underline{\hspace{2cm}}$$