# 3.2 – Solving by Quadratic Formula

For parabolas (or Quadratic Equations) that cannot be factored, solutions can be obtained using the quadratic formula:

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

The coefficients of the QE are substituted into the formula to solve for the "zeros"

**Example #1**: Solve $3x^2 - 8x + 2 = 0$

**Example #2**: Solve $x^2 - x - 6 = 0$

**Example #3:** Solve $0 = 2x^2 + 7x + 3$

**Example #4:** Solve $x^2 + 10x + 25 = 0$

**Example #5**: Solve $2y^2 + 5y = -2$