Graph of a Quadratic Equation

$$y = ax^2 + bx + c$$

$$a \neq 0$$

Example:

$$y = x^2 + 2x - 3$$

line of symmetry
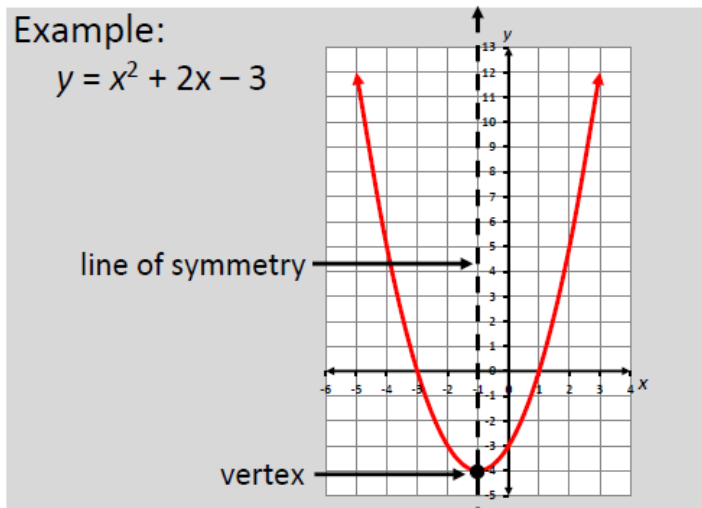
vertex

The graph of the quadratic equation is a curve (parabola) with one line of symmetry and one vertex.