

Vertex Formula

The standard equation form of the parabola is:

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

$$\text{vertex } (h,k) = \left(-\frac{b}{2a}, -\frac{b^2 - 4ac}{4a} \right)$$

where,

$$h = -\frac{b}{2a} \quad \& \quad k = -\frac{b^2 - 4ac}{4a}$$