

Graphing Quadratic Functions in Vertex Form

$$y = -3(x+2)^2 + 4$$

$$y = a(x-h)^2 + k$$

$$a = -3 \quad (h, k)$$

vertex $(-2, 4)$

$$y = -3(1)^2 = -3$$

$$y = -3(2)^2 = -12$$

