Graphing in Vertex Form
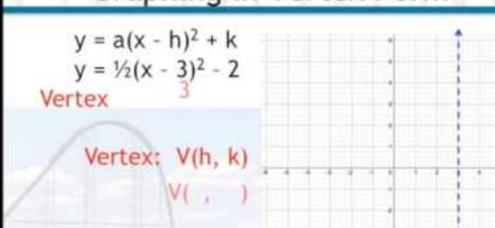
$$y = a(x - h)^2 + k$$
$$y = \frac{1}{2}(x - 3)^2 - 2$$
                    3

Vertex

Vertex: V(h, k)

V(,   )

Axis
x = 3