KEY CONCEPT

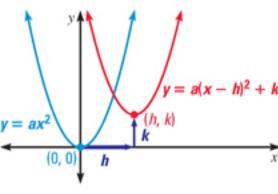
Graph of Vertex Form $y = a(x - h)^2 + k$

The graph of $y = a(x - h)^2 + k$ is the parabola $y = ax^2$ translated horizontally

h units and vertically k units. Characteristics of the graph of

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

- The vertex is (h, k).
- The axis of symmetry is x = h.
- The graph opens up if a > 0 and down if a < 0.



For Your Notebook