

# VERTEX FORM OF A QUADRATIC FUNCTION

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

- ▶ If  $a > 0$ , the parabola opens up
- ▶ If  $a < 0$ , the parabola opens down
- ▶ The axis of symmetry is  $x = h$
- ▶ The vertex is  $(h, k)$