

# Quadratics Vocabulary

- Vertex
    - The vertex is the highest or lowest point on the curve.
    - The vertex is the point  $(x, y)$  where  $x = -(b/2a)$ .
    - Naru calls it the apex.
    - We then use this x-value in the equation to find the y-value of the vertex.
  - Vertex Formula:
    - The graph of  $y = ax^2 + bx + c$  has the line  $x = -(b/2a)$  as its axis of symmetry.
    - The x-coordinate of the vertex is  $x = -(b/2a)$
    - You can find the y by plugging the x-coordinate into your equation.
  - axis of symmetry
    - the vertical line that splits the parabola down the middle.
    - The axis of symmetry uses the same formula as the vertex formula to find the x-coordinate:  $x = -(b/2a)$
  - Up/ Down Test
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