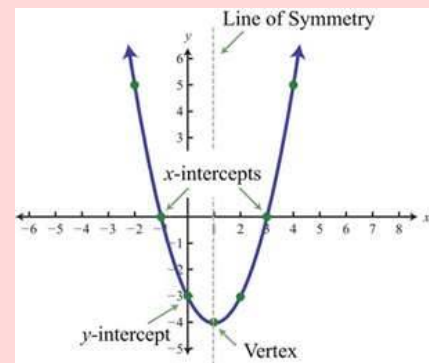


Equation of axis of symmetry will be $x = ?$

Vertex is (x, y)

axis of symmetry max / min
y value



y-intercept - where graph crosses the y-axis ($x = 0$)
- this is the "c" value in $ax^2 + bx + c$

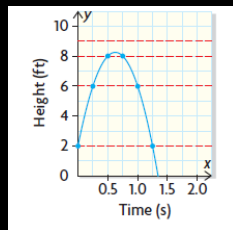
x-intercept(s) - where graph crosses the x-axis ($y = 0$)
- there can be 0, 1, or 2 x-intercepts

Domain - $\{x \in ?\}$

Range $\{y \in ?, y \leq \text{max. vertex} \text{ or } y \geq \text{min. vertex}\}$

Axis of Symmetry

- given 2 points with the same y-coordinate on the parabola, the equation of the axis of symmetry (and then the vertex) can be located by averaging the x-coordinates of these points.



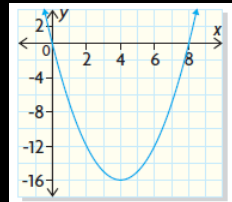
Equation of the axis of symmetry:

$$x = \frac{0 + 1.25}{2}$$

$$x = 0.625$$

- a table of values and/or a graph can directly reveal the parabola's axis of symmetry

x	0	1	2	3	4	5
y	-13	-3	3	5	3	-3



Once you have found the axis of symmetry, you have the x value of the vertex. To find the y value, substitute x into the equation.