Axis Of Symmetry

Quadratic Functions

Vertex

Y Intercept

Vertex Form

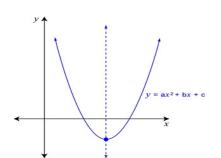
Graphing

Defi	niti	on
		UI I

A quadratic function is ______

Parts of a Quadratic Function:

$$f(x) = 2x^2 + 2x - 4$$



The _____ divides the parabola into two congruent halves.

The equation for the Axis of Symmetry is:

Example – Find the Axis of Symmetry: $y = x^2 - 2x + 3$

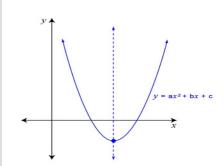
Definition:

Y-Intercept:

Note: If the equation is in _____, the y-intercept is the _____.

Example – Find the y-intercept:

$$y = x^2 - 2x + 3$$

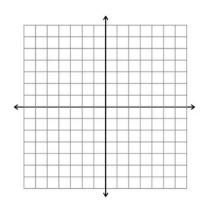


To find the Vertex:

Example – Find the Vertex: $y = x^2 - 2x + 3$

How to Graph a Parabola

$$y = x^2 - 2x + 3$$



Vertex Form of a Parabola:

Where _____

Example:

Find the vertex of $y = x^2 - 6x + 8$

Write in vertex form: