

A quadratic function is a function that can be written in the form

$$y = ax^2 + bx + c$$

where $a \neq 0$

Given the quadratic functions in standard form, determine the values of a , b , and c .

$$y = x^2 - 4x - 2$$

$$y = -x^2 + 2x + 5$$

$$y = 2x^2 - 8$$

A quadratic function is a function that can be written in the form

$$y = ax^2 + bx + c$$

$$a = \quad b = \quad c =$$

Vertex

$$x = \frac{-b}{2a}$$

then plug x into
equation to find y value.

Axis of Symmetry

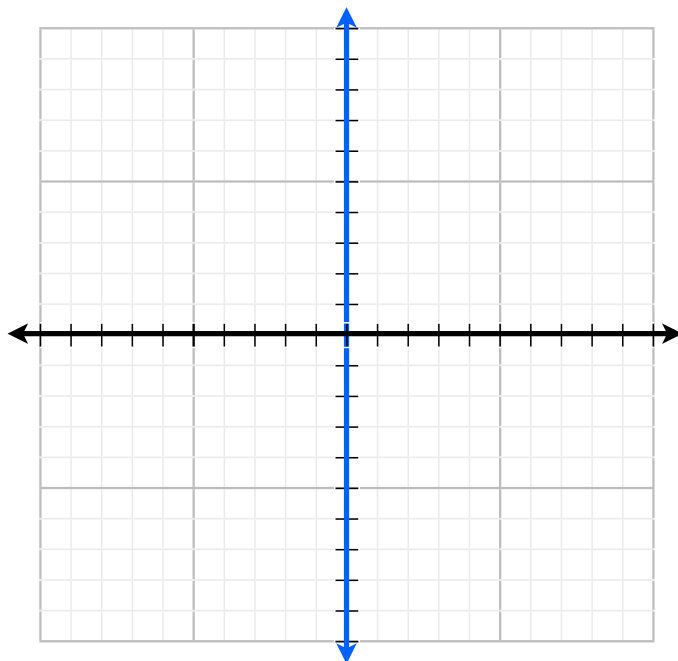
$$\text{the line } x = \frac{-b}{2a}$$

y -intercept

$$(0, c)$$

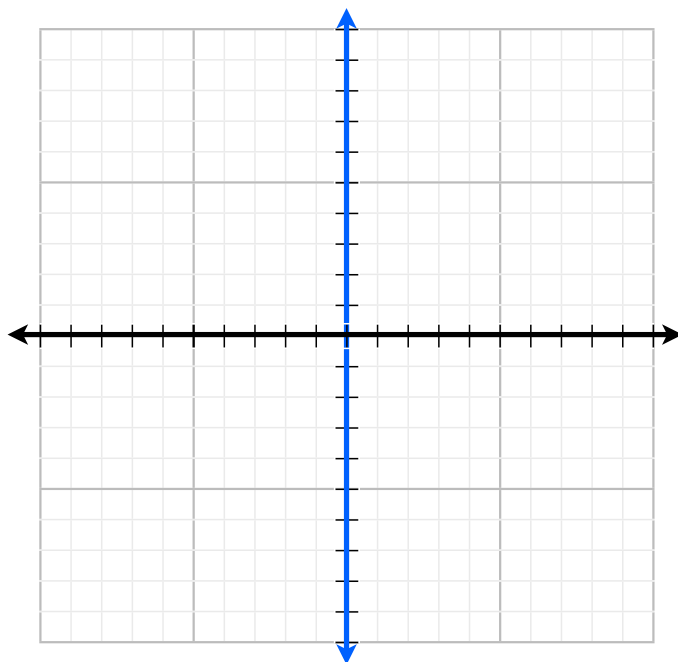
Graph the following quadratic functions

$$y = x^2 + 6x + 5$$



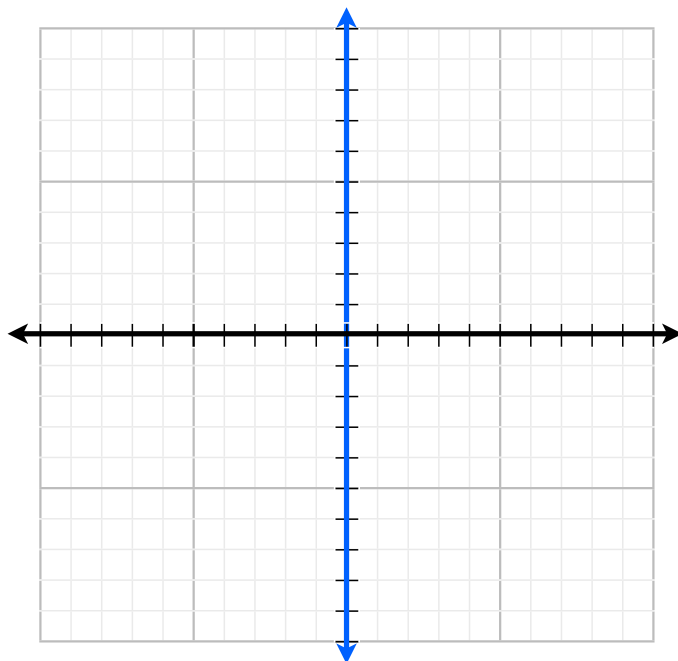
Graph the following quadratic functions

$$y = -x^2 - 4x - 8$$



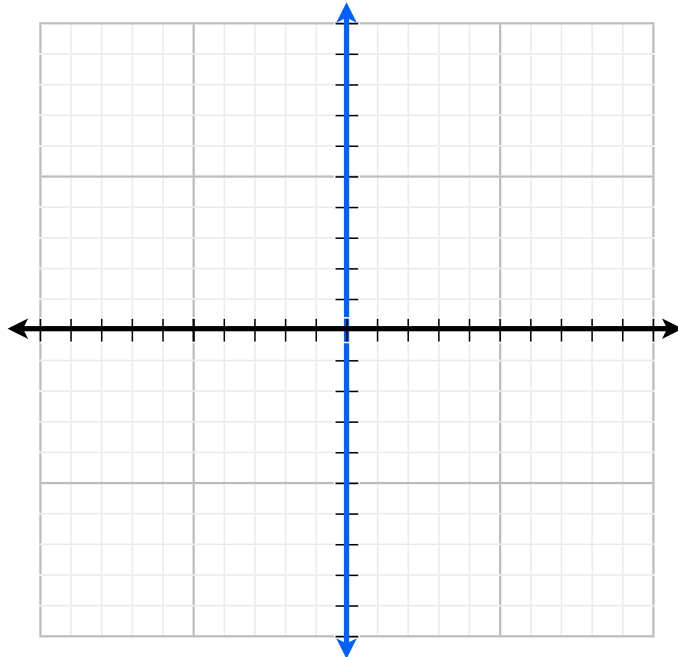
Graph the following quadratic functions

$$y = 2x^2 - 4x$$



Graph the following quadratic functions

$$y = -\frac{1}{2}x^2 + 4x - 6$$



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Vertex

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Axis of Symmetry

$$\text{the line } x = \frac{-b}{2a}$$

y -intercept

$$(0, c)$$