I can identify the key features of quadratic functions.
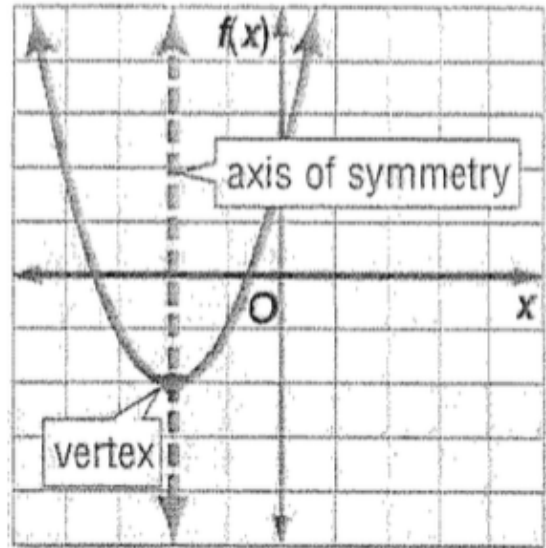
Quadratic Function:

Nonlinear:

Shape:

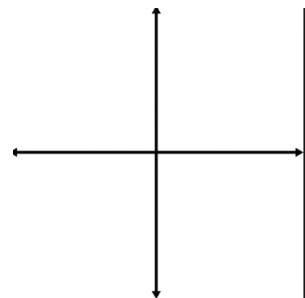Axis of Symmetry:

Vertex:
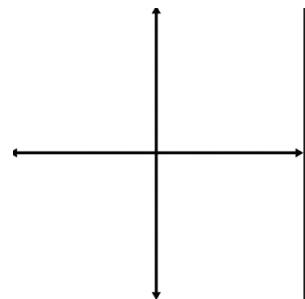

y-intercept:

Minimum:

• a is

• minimum value is

• range is

Maximum:

• a is

• minimum value is

• range is

A parabola has a _____ OR a _____, _____!!!

I can identify the key features of quadratic functions.

Identify characteristics from the graph

Find the vertex, equation for the axis of symmetry and the y-intercept.

	Vertex: Axis of symmetry: y-intercept:		Vertex: Axis of symmetry: y-intercept:

Identify characteristics from the function.

Find the vertex, equation for the axis of symmetry and the y-intercept.

$g(x) = 2x^2 + 4x - 3$	Vertex: Axis of symmetry: y-intercept:
$y = -x^2 + 6x + 4$	Vertex: Axis of symmetry: y-intercept:

Identify maximum and minimum values from the function.

$f(x) = -2x^2 - 4x + 6$	$g(x) = 2x^2 - 4x - 1$
a. Does it have a maximum or minimum value?	a. Does it have a maximum or minimum value?
b. What is the minimum or maximum value?	b. What is the minimum or maximum value?
c. State the domain and range.	c. State the domain and range.

I can identify the key features of quadratic functions.

Alg1 Unit7 Notes1   A.SSE.3

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