

Algebra 2 Honors: Quadratic Functions

Semester 1, Unit 2: Activity 10

Resources:

SpringBoard- Algebra 2

Online Resources:

[Algebra 2 Springboard Text](#)

Unit 2 Vocabulary:

Justify

Derive

Verify

Advantage

Disadvantage

Counterexample

Quadratic equation

Standard form of a quadratic equation

Imaginary number

Complex number

Complex conjugate

Completing the square

Discriminant

Root

Zero

Parabola

Focus

Directrix

Axis of symmetry

Vertex

Quadratic regression

Vertex form

Unit Overview

In this unit, students write the equations of quadratic functions to model situations and then graph these functions. They study methods of finding solutions to quadratic equations and interpreting these solutions. In the process, students learn about complex numbers.

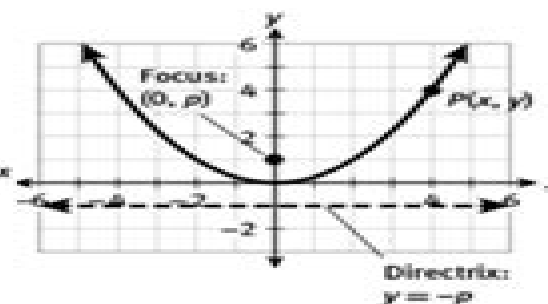
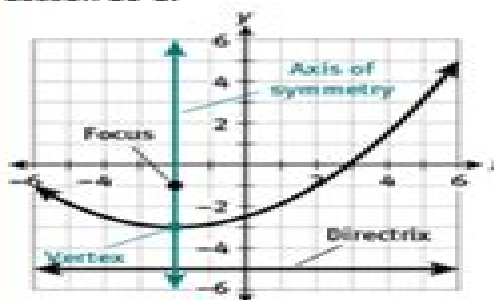
Student Focus

Main Ideas for success in lessons 10-1, 10-2, & 10-3:

- Write equations of parabolas given a graph or key features
- Determine a quadratic function given three points on a plane
- Find a quadratic model given a set of data values
- Use a quadratic model to make predictions about data

Example:

Lesson 10-1:



	Vertical Axis of Symmetry	Horizontal Axis of Symmetry
Vertex	(h, k)	(h, k)
Focus	$(h, k + p)$	$(h + p, k)$
Directrix	horizontal line $y = k - p$	vertical line $x = h - p$
Equation	$y = \frac{1}{4p}(x - h)^2 + k$	$x = \frac{1}{4p}(y - k)^2 + h$

The general equation for a parabola whose vertex is located at the origin, focus at $(0, p)$, and directrix of $y = -p$ is $y = \frac{1}{4p}x^2$.

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