

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.

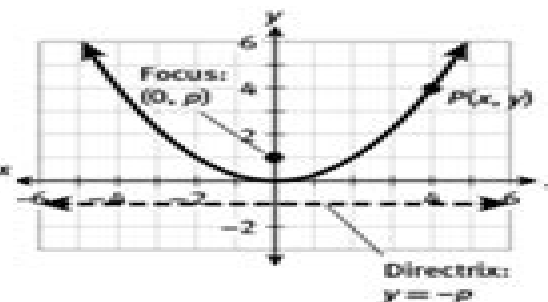
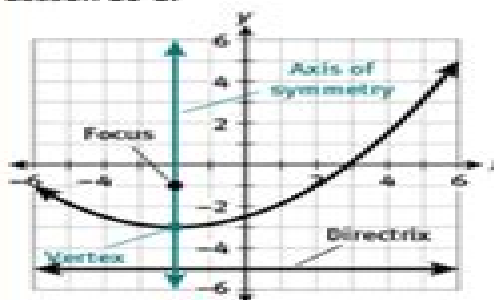
Student Focus

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 $y = \frac{1}{4p}x^2$.

Springboard Mathematics Algebra Unit 2 Quadratic Functions

IM Harris



Springboard Mathematics Algebra Unit 2 Quadratic Functions:

Springboard Mathematics Algebra Unit 2 Quadratic Functions Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Springboard Mathematics Algebra Unit 2 Quadratic Functions**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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