

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.

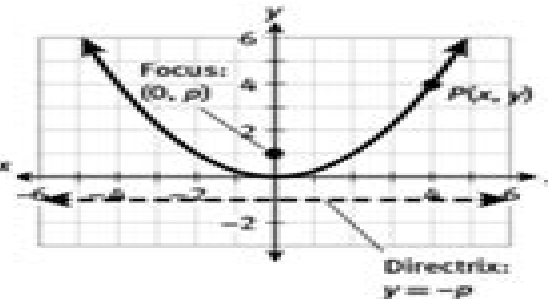
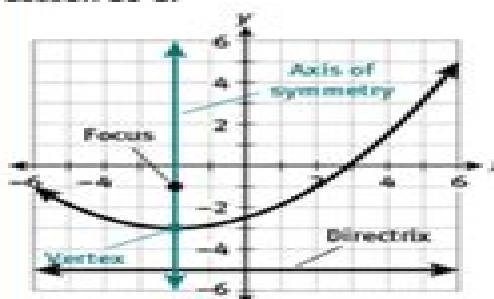
Student Focus

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

Alex Joujan



Springboard Mathematics Algebra Unit 2 Quadratic Functions:

Reviewing **Springboard Mathematics Algebra Unit 2 Quadratic Functions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Springboard Mathematics Algebra Unit 2 Quadratic Functions**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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