

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.

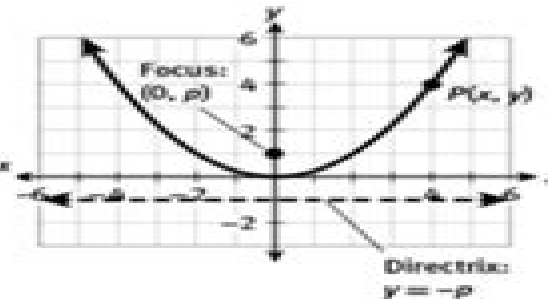
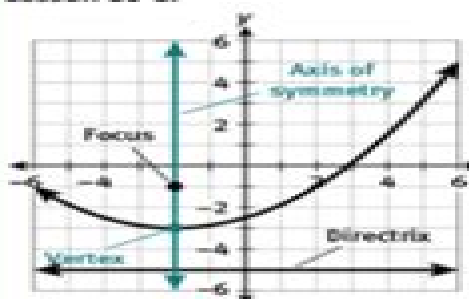
Student Focus

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

No Horsing Around Applications Of Quadratic Functions

Algebra 2

M Tight



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The Complete Algebra Edward Olney,1877 **Pantologia** ,1813 Pantologia. A New Cyclopaedia, Comprehending a Complete Series of Essays, Treatises and Systems, Alphabetically Arranged; with a General Dictionary of Arts, Sciences, and Words ... Illustrated with ... Engravings ... Encyclopaedias,1813 A Philosophical and Mathematical Dictionary Charles Hutton,1815 **The English Presbyterian Messenger** ,1847 Twenty-Third Symposium on Naval Hydrodynamics National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Bassin d'Essais des Carènes,Office of Naval Research,2002-01-01 Vive la Revolution was the theme of the Twenty Third Symposium on Naval Hydrodynamics held in Val de Reuil France from September 17 22 2000 as more than 140 experts in ship design construction and operation came together to exchange naval research developments The forum encouraged both formal and informal discussion of presented papers and the occasion provides an opportunity for direct communication between international peers This book includes sixty three papers presented at the symposium which was organized jointly by the Office of Naval Research the National Research Council Naval Studies Board and the Bassin d Essais des Car nes This book includes the ten topical areas discussed at the symposium wave induced motions and loads hydrodynamics in ship design propulsor hydrodynamics and hydroacoustics CFD validation viscous ship hydrodynamics cavitation and bubbly flow wave hydrodynamics wake dynamics shallow water hydrodynamics and fluid dynamics in the naval context **A Standard Dictionary of the English Language** Isaac Kaufman Funk,1906 Navy and Army Illustrated ,1902 A New English Dictionary on Historical Principles James Augustus Henry Murray,1897 **Pantologia. A new (cabinet) cyclopædia, by J.M. Good, O. Gregory, and N. Bosworth assisted by other gentlemen of eminence** John Mason Good,1813 **The Canada School Journal** ,1884 English Mechanic and Mirror of Science and Art ,1915 **Webster's New International Dictionary of the English Language** Noah Webster,1913 The Academy and Literature ,1891 *The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces* ,1909 **United Services and Empire Review** ,1860 **"A" Standard Dictionary of the English Language Upon Original Plans** Isaac Kaufman Funk,1893 **"A" New English Dictionary on Historical Principles** William A. Craigie,James Augustus Henry Murray,1919 **The Post Magazine and Insurance Monitor** ,1909 English Mechanic and Mirror of Science ,1865

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