

Quadratic Functions

5

Unit Overview

In this unit you will study a variety of ways to solve quadratic functions and systems of equations and apply your learning to analyzing real world problems.

Key Terms

As you study this unit, add these and other terms to your math notebook. Include in your notes your prior knowledge of each word, as well as your experiences in using the word in different mathematical examples. If needed, ask for help in pronouncing new words and add information on pronunciation to your math notebook. It is important that you learn new terms and use them correctly in your class discussions and in your problem solutions.

Math Terms

- quadratic function
- standard form of a quadratic function
- parabola
- vertex of a parabola
- maximum
- minimum
- parent function
- axis of symmetry
- translation
- vertical stretch
- vertical shrink
- transformation
- reflection
- factored form
- zeros of a function
- roots
- completing the square
- discriminant
- imaginary numbers
- imaginary unit
- complex numbers
- piecewise-defined function
- nonlinear system of equations

ESSENTIAL QUESTIONS



How are quadratic functions used to model, analyze, and interpret mathematical relationships?



Why is it advantageous to know a variety of ways to solve and graph quadratic functions?

EMBEDDED ASSESSMENTS

This unit has three embedded assessments, following Activities 30, 33, and 35. They will allow you to demonstrate your understanding of graphing, identifying, and modeling quadratic functions, solving quadratic equations and solving nonlinear systems of equations.

Embedded Assessment 1:

Graphing Quadratic Functions p. 453

Embedded Assessment 2:

Solving Quadratic Equations p. 493

Embedded Assessment 3:

Solving Systems of Equations p. 519

Unit 5 Quadratic Functions Springboard Answers

Robert Barclay



Unit 5 Quadratic Functions Springboard Answers:

Quadratic Equations and Functions Workbook Norman Balason, 2021-06-19 The QUADRATIC EQUATIONS AND FUNCTIONS WORKBOOK is a resource that Algebra 2 students can use to practice solving quadratic equations writing quadratic equations graphing quadratic functions writing quadratic functions and solving word problems that involve quadratic equations and functions There are nine sections in this workbook Example problems with step by step solutions precede each type of problem for sections one through nine Students should study these examples before starting the problems This workbook also contains the step by step solutions for all problems Section 1 begins with problems for students to use square roots to solve quadratic equations in simplest terms The denominator for answers is rationalized In Section 2 students solve quadratic equations by factoring and by using the Zero Product Property Section 3 includes problems where students solve quadratic equations by completing the square This workbook contains the derivation of the Quadratic Formula In Section 4 students use the Quadratic Formula to solve quadratic equations This workbook includes the derivation of the sum and product of roots for a quadratic equation in standard form Section 5 is where students write quadratic equations given their roots Students can use the Zero Product Property or the sum and product of its roots to do these problems In Section 6 students explain why the graph of the quadratic function which is called a Parabola will open upward or downward Then they determine if the graph will have a minimum or a maximum Section 7 is where students graph quadratic functions that are in standard factored and vertex form In Section 8 students use the coordinates for points on the graph of a quadratic function to write the quadratic function in factored vertex and standard form Section 9 is where students solve word problems that involve quadratic equations and quadratic functions Finally there are step by step solutions for all problems ABOUT THE AUTHOR Teaching Experience Norman just finished his 27th year as a high school math teacher and he is looking forward to the 2021 2022 school year During his teaching career he has taught Algebra 1 Algebra 2 Geometry and Pre Calculus Education Norman earned a M Ed from Chaminade University of Honolulu and a B A in Mathematics from the University of Hawaii at Manoa Personal Norman is a Navy Veteran He enlisted in the United States Navy upon his high school graduation He worked as an F 14 Tomcat plane captain not a pilot for the VF 41 Black Aces while they were out at sea on the aircraft carrier U S S Nimitz He is proud to have served his country while traveling the world and developed life long friendships through unforgettable experiences Norman enjoys his free time reading biographies listening to music playing the guitar watching finance and investing videos and hanging out with family and friends **How to Pass National 5**

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Quadratic Equations and Curves ,

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