

Name: _____

Unit 8: Quadratic Equations

Date: _____ Bell: _____

Homework 1: Intro to Quadratics



*** This is a 2-page document! ***

Complete the following statements.

1. The **standard form** of a quadratic equation is _____.
2. The **curve** formed by a quadratic equation is called a _____.
3. The formula for the **axis of symmetry** is _____.
4. If the **vertex** is the **highest point** on the graph, it is called a _____.
5. If a **vertex** is the **lowest point** on a graph, it is called a _____.

*Find the axis of symmetry and vertex for the following quadratic equations.
Then, sketch the parabola and label all parts.*

6. $y = x^2 + 6x + 4$

Axis of Symmetry: _____ Vertex: _____

Sketch:

7. $y = -2x^2 + 8x - 5$

Axis of Symmetry: _____ Vertex: _____

Sketch:

8. $y = x^2 - 2x$

Axis of Symmetry: _____ Vertex: _____

Sketch:

9. $y = -x^2 - 6x - 9$

Axis of Symmetry: _____ Vertex: _____

Sketch:

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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

Quadratic Equations and Curves Sherry Blackman, 1990-01-01 **Quadratic Equations and Curves** Leon J. Ablon, 1981 *American Doctoral Dissertations*, 1994 *Quadratic Equations and Curves*, 1973 *Quadratic Form* Don Sabado, 2021-04-18 Description The quadratic equation which is introduced in Algebra 1 and Algebra 2 can help Math students solve mathematics equations beyond the quadratic equation Students were introduced to solving quadratic equations using three methods A Solve by

Factoring B Solve by the Quadratic Formula C Solve by Completing the Square Note The Workbook contains solving for quadratic equations and solving for equations in quadratic form About the Author Visit Amazon Author Central Page *The American Catalogue ... July 1, 1876-Dec. 31, 1910*, 1908 **Solutions of Quadratic Equations in Small Cancellation Groups** Claude Wilson Anderson, 1981 *Quadratic Equations and Curves*, BEYOND THE QUADRATIC FORMULA RON IRVING., 2020 *Quadratic equations*, 1985 **Mathematical Reviews**, 1985 **Quadratic Equations - The Quadratic Formula**, For those cases that defy simple factoring the quadratic formula provides a powerful technique for solving quadratic equations Discover that this formidable looking expression is not as difficult as it appears and is well worth committing to memory Also learn how to determine if a quadratic equation has no solutions **Mathematics: quadratic equations.** Marilù Garo, 2014-10-05 Quadratic Equations is the first book of a series dedicated to mathematics The book is also available in Italian Using a fast simple and complete method you ll learn how to solve quadratic equations and what are the basics of this topic In particular here we explain the numerical fractional and parametric equations the Descartes rule and the relation between the coefficients and solutions of a quadratic equation If you need information you can visit the website www.mathsly.it and by using the contact form you can communicate directly with the author **Solving Quadratic Equations** Lori K. Ditoro, 1994 *Quadratic Equations - Completing the Square*, After learning the definition of a function investigate an additional approach to solving quadratic equations completing the square This technique is very useful when rewriting the equation of a quadratic function in such a way that the graph of the function is easily sketched *Dissertation Abstracts International*, 1984-02 *Current Index to Statistics, Applications, Methods and Theory*, 1990 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields *Metals Abstracts*, 1995 A Beginner's Guide to Quadratic Equations - A Selection of Classic Mathematical Articles Containing Examples and Exercises on the Subject of Algebra Various, 2012-06 The Vikings were renowned sailors and notorious for their raids along the coastlines of Europe from the Volga in Russia to Spain and everywhere in between This is a fascinating guide for students of history wishing to study the movement of the Vikings and their influence around Europe Many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive Pomona Press are republishing these classic works in affordable high quality modern editions using the original text and artwork

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