

4-2 Study Guide and Intervention

Solving Quadratic Equations by Graphing

Solve Quadratic Equations

Quadratic Equation	A quadratic equation has the form $ax^2 + bx + c = 0$, where $a \neq 0$.
Roots of a Quadratic Equation	solution(s) of the equation, or the zero(s) of the related quadratic function

The roots of a quadratic function are the x -intercepts of its graph. Therefore, finding the x -intercepts is one way of solving the related quadratic equation.

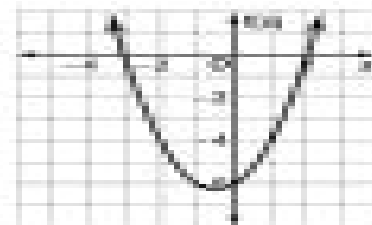
Example: Solve $x^2 + x - 6 = 0$ by graphing.

Graph the related function, $f(x) = x^2 + x - 6$.

The x -coordinate of the vertex is $-\frac{b}{2a} = -\frac{1}{2}$, and the equation of the axis of symmetry is $x = -\frac{1}{2}$.

Make a table of values using x -values around $-\frac{1}{2}$.

x	-1	$-\frac{1}{2}$	0	1	2
$f(x)$	-6	$-6\frac{1}{4}$	-6	-4	0

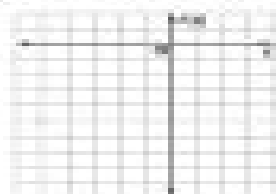


From the table and the graph, we can see that the roots of the function are 2 and -3.

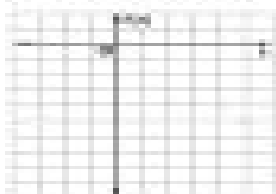
Exercises

Use the related graph of each equation to determine its solution.

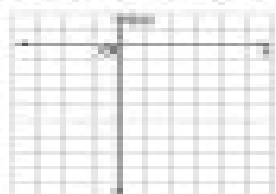
1. $x^2 + 2x - 8 = 0$



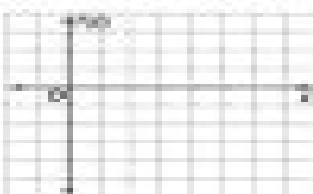
2. $x^2 - 4x - 5 = 0$



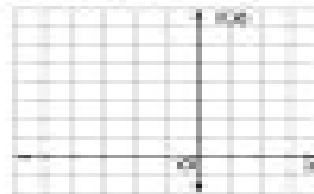
3. $x^2 - 5x + 4 = 0$



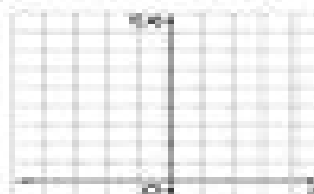
4. $x^2 - 10x + 21 = 0$



5. $x^2 + 4x + 6 = 0$



6. $4x^2 + 4x + 1 = 0$



6 1 Study Guide And Intervention Graphing Quadratic Functions Answers

Terry C. Jones



6 1 Study Guide And Intervention Graphing Quadratic Functions Answers:

Algebra 1, Study Guide and Intervention Workbook McGraw-Hill/Glencoe,2002-06 *Algebra 2 Chapter 6 Resource Masters* McGraw-Hill Staff,2002-05 Glencoe Algebra I ,2003 *Mathematics Assessment and Intervention in a PLC at Work®*, *Second Edition* Sarah Schuhl,Timothy D. Kanold,Mona Toncheff,Bill Barnes,Jessica Kanold-McIntyre,Matthew R. Larson,Georgina Rivera,2023-06-27 This second edition book from the Every Student Can Learn Mathematics series guides you and your collaborative teams in building student and collective teacher efficacy through the formative use of common assessments Discover how you can work interdependently to design high quality assessments calibrate scoring of student work and analyze data to enhance instructional practices and sustain effective Tier 2 learning experiences for students New and enhanced protocols and examples provide practical tools and models for immediate implementation Improve your mathematics collaborative team assessment processes using the four critical questions of a PLC at Work along with an RTI or MTSS focus on effective Tier 2 interventions This book will help K 12 mathematics teachers and teacher teams Learn the criteria for the formative use of all unit by unit common mathematics assessments Identify essential learning standards as drivers for common assessments and student reflection Design and use high quality common assessments and team scoring agreements Calibrate the scoring of student work for consistent formative feedback to students Engage in data protocols that analyze student work to enhance instructional practices identify students in need of targeted intervention or extension and create effective intervention learning experiences Determine how students can reflect and set goals using the formative feedback process based on common unit by unit assessments Design and implement an effective Tier 2 mathematics intervention program to support student learning Contents Preface Introduction Chapter 1 The Mathematics at Work Common Assessment Process Chapter 2 Quality Common Mathematics Assessments Chapter 3 Sample Common Mathematics Assessments and Calibration Routines Chapter 4 Teacher Actions in the Formative Assessment Process Chapter 5 Student Actions in the Formative Assessment Process Chapter 6 Team Response to Student Learning Using Tier 2 Mathematics Intervention Criteria Summary Epilogue Appendix References and Resources Index **Resources in Education** ,1998 **School Library Journal** ,1986 **El-Hi Textbooks and Serials in Print** ,2003 **Environment Abstracts Annual** ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters **The Education Index** ,1983 *International Books in Print* ,1990 *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

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