

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

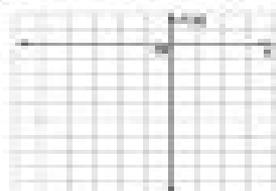


From the table and the graph, we can see that the roots of the function are 2 and -3.

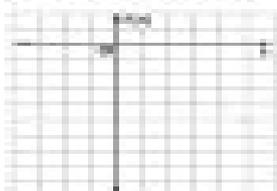
Exercises

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

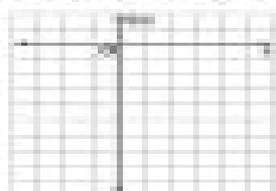
1. $x^2 + 2x - 8 = 0$



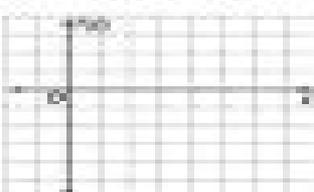
2. $x^2 - 4x - 5 = 0$



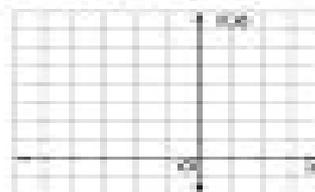
3. $x^2 - 5x + 4 = 0$



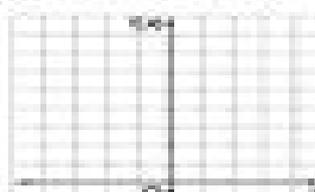
4. $x^2 - 10x + 21 = 0$



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



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



6 1 Study Guide And Intervention Graphing Quadratic Functions Answers

F Rizvi



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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

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