



Vocabulary

Review

Write a key from each formula in the description.

1. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ *quadratic formula*
 2. $x = \frac{-b}{2a}$ *vertex of a parabola*
 3. $x = \frac{-b}{2a} \pm \sqrt{\frac{b^2 - 4ac}{4a^2}}$ *vertex of a parabola*
 4. $x = \frac{-b}{2a}$ *vertex of a parabola*

Vocabulary Builder

Discriminant *dis-kri-min-ant*

Definition: The discriminant of a quadratic equation in the form $ax^2 + bx + c = 0$ is the value of the expression $b^2 - 4ac$.

Main Idea: The discriminant helps you determine how many real solutions a quadratic equation has.

Discriminant

- $b^2 - 4ac > 0$ means 2 real solutions
 $b^2 - 4ac = 0$ means 1 real solution
 $b^2 - 4ac < 0$ means 0 real solutions

Use Your Vocabulary

Circle the discriminant of each equation.

1. $x^2 - 7x + 4 = 0$
 $b^2 - 4ac = 49$ $b^2 - 4ac = 4$ $b^2 - 4ac = 25$
 2. $x^2 + 6x + 3 = 0$
 $b^2 - 4ac = 36$ $b^2 - 4ac = 12$ $b^2 - 4ac = 33$
 3. $x^2 + 2x + 1 = 0$
 $b^2 - 4ac = 16$ $b^2 - 4ac = 12$ $b^2 - 4ac = 33$
 4. $x^2 - 5x + 4 = 0$
 $b^2 - 4ac = 9$ $b^2 - 4ac = 16$ $b^2 - 4ac = 33$

Key Concept The Quadratic Formula

To solve the quadratic equation $ax^2 + bx + c = 0$, use the Quadratic Formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2. Complete the table if a real-life situation gives a quadratic equation.

$a = 1$	$a = 2$	$a = 3$	$a = 4$
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Using the Quadratic Formula

Goal 17 What are the solutions of $x^2 + 4x + 4 = 0$? Use the Quadratic Formula.

10. Write the standard form of the equation.

$$x^2 + 4x + 4 = 0$$

11. Identify the values of a , b , and c .

$$a = 1, b = 4, c = 4$$

12. Substitute the values of a , b , and c into the Quadratic Formula. Use the justification to solve the equation.

$$x = \frac{-4 \pm \sqrt{4^2 - 4(1)(4)}}{2(1)}$$

Write the Quadratic Formula.

$$x = \frac{-4 \pm \sqrt{16 - 16}}{2}$$

Simplify the radical.

$$x = \frac{-4 \pm \sqrt{0}}{2}$$

Simplify under the radical.

$$x = \frac{-4 \pm 0}{2}$$

Simplify.

13. Substitute the value you found in Exercise 12 into the original equation to check your solution.

$$x^2 + 4x + 4 = 0$$

Write the original equation.

$$(-2)^2 + 4(-2) + 4 = 0$$

Substitute for x .

$$4 - 8 + 4 = 0$$

Check for equality.

Algebra 2 Solutions To Prentice Hall Chapter 5 Workbook

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G. Parker, David G. Wilson, Dennis
Stokes**

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this title **Numerical Quadrature and Solution of Ordinary Differential Equations** A.H. Stroud, 2012-12-06 This is a textbook for a one semester course on numerical analysis for senior undergraduate or beginning graduate students with no previous knowledge of the subject The prerequisites are calculus some knowledge of ordinary differential equations and knowledge of computer programming using Fortran Normally this should be half of a two semester course the other semester covering numerical solution of linear systems inversion of matrices and roots of polynomials Neither semester should be a prerequisite for the other This would prepare the student for advanced topics on numerical analysis such as partial differential equations We are philosophically opposed to a one semester surveyor numerical methods course which covers all of the above mentioned topics plus perhaps others in one semester We believe the student in such a course does not learn enough about any one topic to develop an appreciation for it For reference Chapter I contains statements of results from other branches of mathematics needed for the numerical analysis The instructor may have to review some of these results Chapter 2 contains basic results about interpolation We spend only about one week of a semester on interpolation and divide the remainder of the semester between quadrature and differential equations Most of the sections not marked with an can be covered in one semester The sections marked with an are included as a guide for further study **Algebra**
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