



Vocabulary

Review

Write a brief description for each term in the descriptions.

1. $x = 2$ *one solution*
2. $x = 4$ *infinite solutions*
3. $x^2 + 10x + 25 = 0$ *one solution*
4. $x^2 = 25$ *two solutions*

Vocabulary Builder

Discriminant *noun* the part of a quadratic equation that determines the number of solutions.

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. $x^2 - 7x - 4 = 0$
 $b^2 - 4ac = 49$ $b^2 - 4ac = 4$ $b^2 - 4ac = 28$
2. $x^2 + 10x + 25 = 0$
 $b^2 - 4ac = 100$ $b^2 - 4ac = 10$ $b^2 - 4ac = 25$
3. $x^2 + 2x + 1 = 0$
 $b^2 - 4ac = 16$ $b^2 - 4ac = 10$ $b^2 - 4ac = 0$
4. $x^2 - 3x + 4 = 0$
 $b^2 - 4ac = 9$ $b^2 - 4ac = 48$ $b^2 - 4ac = 432$

Key Concept The Quadratic Formula

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

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

1. Check that the value of a that gives 500 goes a solution to the quadratic formula.

$$a = 5 \quad a = 10 \quad a = 20 \quad a = 50$$



Problem Using the Quadratic Formula

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

18. Write the standard form of the equation.

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

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

$$a = 1 \quad b = 4 \quad c = 4$$

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

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

Write the Quadratic Formula.

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

Substitute for a , b , and c .

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

Simplify under the radical.

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

Simplify.

21. Substitute the value you found in Exercise 20 into the original equation to check your solution.

$$x^2 + 4x + 4 = 0 \quad \text{Write the original equation.}$$

$$(x)^2 + 4(x) + 4 = 0 \quad \text{Substitute for } x.$$

$$0 = 0 \quad \text{Check for equality.}$$

Prentice Hall Algebra Workbook Chapter 2 Answer Key

AW Rasmussen



Prentice Hall Algebra Workbook Chapter 2 Answer Key:

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