



Vocabulary

Review

Write a brief description for each term in the descriptions.

- $x = y$ *sets of data*
- $x = 4y$ *relationship of a ratio*
- $x^2 + 3x + 4$ *area of a square*
- $x^2 + 3x^2$ *perimeter of a rectangle*

Vocabulary Builder

Discriminant *noun* **DE** *dee* **dis** *dis* **crim** *crim*

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 2 real solutions

Use Your Vocabulary

Circle the discriminant of each equation.

- $x^2 - 7x + 4 = 0$
 $b^2 - 4ac = 49$ $b^2 - 4ac = 4$ $b^2 - 4ac = 28$
- $x^2 + 3x + 2 = 0$
 $b^2 - 4ac = 9$ $b^2 - 4ac = 12$ $b^2 - 4ac = 1$
- $x^2 + 2x + 1 = 0$
 $b^2 - 4ac = 16$ $b^2 - 4ac = 1$ $b^2 - 4ac = 12$
- $x^2 + 3x + 4 = 0$
 $b^2 - 4ac = 9$ $b^2 - 4ac = 12$ $b^2 - 4ac = 1$

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 out the value of $b^2 - 4ac$ that gives solutions to the quadratic formula.

$b^2 - 4ac$

$b^2 - 4ac$

$b^2 - 4ac$

$b^2 - 4ac$



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.

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

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

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

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

$a = 1$

$b = 4$

$c = 4$

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.

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

Write the original equation.

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

Substitute for x .

$-2 = -2$

Check for equality.

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JL Elias



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