

## Study Guide And Intervention Quadratic Equations

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### Study Guide And Intervention Quadratic

Study Guide and Intervention The Quadratic Formula and the Discriminant Quadratic Formula The Quadratic Formula can be used to solve any quadratic equation once it is written in the form  $ax^2 + bx + c = 0$ . Quadratic Formula The solutions of  $ax^2 + bx + c = 0$ , with  $a \neq 0$ , are given by  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ . Solve  $x^2 - 5x = 14$  by using the ...

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Study Guide and Intervention (continued) Solving Quadratic Equations by Using the Quadratic Formula The Discriminant In the Quadratic Formula,  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ , the expression  $b^2 - 4ac$  under the radical sign,  $b^2 - 4ac$ , is called the discriminant. The discriminant can be used to determine the number of real solutions for a quadratic equation.

### Study Guide And Intervention Quadratic Equations

Definitions. A quadratic equation takes the form  $ax^2 + bx + c = 0$ . Quadratic Equation - An equation that can be written in the form  $ax^2 + bx + c = 0$ . For example,  $2x^2 + 3x + 2 = 0$  is a quadratic equation while  $3x + 2$  is not a quadratic equation.; Factoring - The process of breaking apart of an equation into factors (or separate terms) such that when the separate terms are multiplied ...

### Study Guide And Intervention Quadratic Equations Answers

of a Quadratic Function when a 0. The graph opens down and has a maximum when a Study Guide and Intervention 0. Determine whether each function has a maximum or minimum value. Then find the maximum or minimum value of each function. (continued) NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_ Graphing Quadratic Functions

### Study Guide And Intervention Solving Quadratic Equations ...

Study Guide and Intervention (continued) Solving Quadratic Equations by Graphing Estimate Solutions The roots of a quadratic equation may not be integers. If exact roots cannot be found, they can be estimated by finding the consecutive integers between which the roots lie. Solve  $x^2 + 6x + 6 = 0$  by graphing. If integral roots cannot be found,

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### NAME DATE PERIOD 4-5 Study Guide and Intervention

Study Guide and Intervention Algebra:Variables and Expressions Evaluate  $6x^7$  if  $x = 8$ .  $6x^7 = 6(8)^7$  Replace  $x$  with 8.  $48^7$  Use the order of operations.  $41$  Subtract 7 from 48. Evaluate  $5m^3n$  if  $m = 6$  and  $n = 5$ .  $5m^3n = 5(6)^3(5)$  Replace  $m$  with 6 and  $n$  with 5.  $30$   $15$  Use the order of operations.  $15$  Subtract 15 from 30. Evaluate  $a^3b$  if  $a = 7$  and  $b = 6$ .  $a^3b = 7^3 \cdot 6$  ...

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9-5 Study Guide and Intervention (continued) Solving Quadratic Equations by Using the Quadratic Formula The Discriminant In the Quadratic Formula,  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ , the expression under the radical sign,  $b^2 - 4ac$ , is called the discriminant. The discriminant can be used to determine the number of real solutions for a ...

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Study Guide and Intervention Solving  $x^2 + bx + c = 0$  Factor  $x^2 + bx + c$  To factor a trinomial of the form  $2x^2 + bx + c$ , find two integers,  $m$  and  $p$ , whose sum is equal to  $b$  and whose product is equal to  $c$ . Factor each polynomial. a.  $x^2 + 7x + 10$  In this trinomial,  $b = 7$  and  $c = 10$ . Factors of 10 Sum of Factors 1, 10 11 2, 5 7 Since  $2 + 5 = 7$  and  $2 \cdot 5 = 10$  ...

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NAME DATE PERIOD 4-1 Study Guide and Intervention. 4-1 Study Guide and Intervention (continued) Graphing Quadratic Functions Maximum and Minimum Values The y-coordinate of the vertex of a quadratic function is the maximum value or minimum value of the function.

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4-3 Study Guide and Intervention (continued) Solving Quadratic Equations by Factoring Solve Equations by Factoring When you use factoring to solve a quadratic equation, you use the following property. Zero Product Property For any real numbers  $a$  and  $b$ , if  $ab = 0$ , then either  $a = 0$  or  $b = 0$ , or both  $a$  and  $b = 0$ . Example: Solve each equation by ...

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Study Guide and Intervention (continued) Completing the Square Complete the Square To complete the square for a quadratic expression of the form  $x^2 + bx$ , follow these steps. 1. Find  $-\frac{b}{2}$ . 2. Square  $-\frac{b}{2}$ . 3. Add  $(-\frac{b}{2})^2$  to  $x^2 + bx$ . 2Find the value of  $c$  that makes  $x^2 + 22x + c$  a perfect square trinomial. Then write the trinomial as the ...

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