

## *Study Guide And Intervention Quadratic Equations Answers*

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**Study Guide And Intervention Quadratic**

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.

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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. Maximum or Minimum Value of a Quadratic Function The graph of  $f(x) = 2ax^2 + bx + c$ , where  $a \neq 0$ , opens up and has a minimum when  $a > 0$ .

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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 quadratic equation.

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Study Guide and Intervention Quadratic Inequalities Graph Quadratic Inequalities To graph a quadratic inequality in two variables, use the following steps: 1. Graph the related quadratic equation,  $y = ax^2 + bx + c$ . Use a dashed line for  $<$  or  $>$ ; use a solid line for  $\leq$  or  $\geq$ . 2. Test a point inside the parabola.

**NAME DATE PERIOD 4-8 Study Guide and Intervention**

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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The second method, factoring, becomes much more difficult as the quadratic equation becomes more complex. For example, it is much easier to factor a quadratic equation in the form  $ax^2 + bx + c$  where  $a = 1$  than it is to factor a quadratic equation in the form  $ax^2 + bx + c$  where  $a \neq 1$ . Solving Quadratic Equations: The Quadratic Formula

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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  $x^2 + bx + c$ , 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

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NAME DATE PERIOD 9-4 Study Guide and Intervention (continued) Solving Quadratic Equations by Completing the Square Solve by Completing the Square since few quadratic expressions are perfect square trinomials, the method of completing the square can be used to solve some quadratic equations.

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

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Study Guide and Intervention Transformations of Quadratic Functions Describe how the graph of each function is related to the graph of  $f(x) \dots$  9-3 Study Guide and Intervention (continued) Transformations of Quadratic Functions  $0 < a < 1$   $a = 1$   $a > 1$   $x$   $y$   $O$   $f(x) = -x^2$   $f(x) = x^2$  Example  $a$ .

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**4-8 Study Guide and Intervention - Weebly**

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 zeros of a quadratic function are the x-intercepts ...

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Study Guide and Intervention Completing the Square Square Root Property Use the Square Root Property to solve a quadratic equation that is in the form "perfect square trinomial = constant." Solve each equation by using the Square Root Property. Round to the nearest hundredth if necessary. a.  $x^2 - 8x + 16 = 25$   $x^2 - 8x + 16 = 25$   $(x - 4)^2 = 25$

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

The expression under the radical sign,  $b^2 - 4ac$ , in the Quadratic Formula is called the discriminant. Discriminant Type and Number of Roots  $b^2 - 4ac > 0$  and a perfect square 2 rational roots  $b^2 - 4ac > 0$ , ... Study Guide and Intervention (continued) The Quadratic Formula and the Discriminant 5-6

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