

Study Guide And Intervention Quadratic Equations Answers

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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 ...

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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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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

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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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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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4-6 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 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

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Study Guide and Intervention Solving $x^2 + bx + c = 0$ 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

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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 ...