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Use the quadratic formula to solve the following quadratic equation: $2x^2 - 6x + 3 = 0$. Give your answer to 2 decimal places. [2 marks] $a=2$, $b=-6$, $c=3$. Putting these into the formula, we get. $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \times 2 \times 3}}{2 \times 2}$ so, the solutions are.

$x = \frac{6 + \sqrt{12}}{4}$ and $x = \frac{6 - \sqrt{12}}{4}$ 12 is not a square number, which is how we know this won't give us a nice answer.

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2: 3

Mr Barton Maths

Quadratic Equations Worksheet

Solve the quadratic equations:

Exercise 1 $\$4\{ x \}^{\{ 2 \}}-16=0\$$

Exercise 2 $\$6\{ x \}^{\{ 2 \}}+3x=0\$$

Exercise 3 $\$4\{ x \}^{\{ 2 \}}+2=0\$$

Exercise 4 $\$\{ x \}^{\{ 2 \}}-2x+1=0\$$

Exercise 5 $\$\{ x \}^{\{ 2 \}}+x+1=0\$$

Exercise 6 $\$\{ x \}^{\{ 2 \}}$

$\}-4x+4=0\$...$

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A quadratic equation: $ax^2 + bx + c = 0$, where x is the unknown, and $a \neq 0$, b , and c are numerical coefficients. Either the given equations are already in this form, or you need to rearrange them to arrive at this form. You can also use algebraic identities at this stage if the equation permits. Once you are here, follow these steps to a tee and you will progress your way to the roots with ease.

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graph is used to show why
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16. $(x - 4)^2 - 9 = 0$ 17. $(x - 10)^2 - 48 = 0$
18. $x^2 + 14x + 45 = 0$ 19. $x^2 + 6x - 10 = 30$ 20. $4x^2 - 100 = 0$ 21. $6x^2 - 48x + 54 = 0$ 22. $4x^2 + 2x = 12$ 23. $9x^2 + 7x - 4 = 0$ 24. $3x^2 + 9x - 6 = 0$ 25. $x^2 - 35x + 24 = 0$. Created by Maria Gommel, July 2014. 1. Answers. 1. $3(x + 12)$ 2. $4x(x + 4)$ 3. $(x - 10)(x - 4)$ 4. $(x + 6)(x - 2)$ 5.

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Factoring and Solving Quadratic Equations Worksheet

Although there are other methods to solve quadratic equations (factoring, graphing, completing the square) it is important to use efficiency, hence you are asked to use the quadratic formula to solve these questions. However, there are other worksheets that require you to complete the square, factor and graphing.

Quadratic Formula Worksheets with Answers - ThoughtCo

$$4x + 3y = 14 \quad 5x + 7y = 11$$

$$4x + 3y = 14, \quad 5x + 7y = 11.$$

Step 1: Write one equation above the other. Both equations need to be in the form. $ax + by = c$.

$$ax + by = c \quad ax + by = c, \text{ so}$$

$$\text{rearrange if needed. } 4x + 3y =$$

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Answers

$$\begin{aligned} 4x + 3y &= 14 \\ 5x + 7y &= 11 \end{aligned}$$

$4x + 3y = 14$
 $5x + 7y = 11$

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Revision ...

In this Algebra II worksheet, 11th graders solve quadratic equations by factoring, completing the square, and the quadratic formula. Application problems are included. The two page worksheet contains seventy-two problems.

Solving Quadratic Equations
Worksheet for 11th Grade ...

In a nutshell, the quadratic equation can be solved using the quadratic formula using a quadratic worksheet, which

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Answers consist of four quadratic factors (x and y), and four working factors, $x + y + 4$, and $x + 5$. After identifying the variables, one has to find the factors, x and y, and their differences, $x - y - x$.

Solving Quadratics by Factoring Worksheet

Using the Quadratic Formula

Date _____ Period _____

Solve each equation with the quadratic formula. 1) $m^2 - 5m - 14 = 0$ 2) $b^2 - 4b + 4 = 0$ 3) $2m^2 + 2m - 12 = 0$ 4) $2x^2 - 3x - 5 = 0$ 5) $x^2 + 4x + 3 = 0$ 6) $2x^2 + 3x - 20 = 0$ 7) $4b^2 + 8b + 7 = 4$ 8) $2m^2 - 7m - 13 = -10$

Solve each equation with the quadratic formula.

In advance of dealing with

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Answers
scientific notation, percentages,
distance formula, Pythagorean
Theorem, area of triangles from
determinants, basic circles,
square roots, mean, median,
mode, geometric mean, box and
whisker plots, matrices
(cryptography and inverses),
plotting points, graphing circles,
lines, and parabolas, long and
synthetic division of polynomials,
FOIL, Quadratic Formula,
logarithms, factoring, and the
Binary number system.

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