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Examples **How To Solve**

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(Part 1) | XerJigs

Factoring Quadratics... How?

(NancyPi) **Algebra -**

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Lesson 3: Solving Quadratic Equation by Factoring **Solving**

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Quadratic Equations by

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1. Solving Quadratic

Equations by Factoring The general form of a quadratic equation is $ax^2 + bx + c = 0$ where x is the... 2.

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~~1. Solving Quadratic Equations by Factoring~~
Therefore, when solving quadratic equations by factoring, we must always have the equation in the

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form " (quadratic expression) equals (zero) " before we make any attempt to solve the quadratic equation by factoring.

Returning to the exercise:
The Zero Factor Principle tells me that at least one

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of the factors must be equal to zero.

~~Solving Quadratic Equations by Factoring | Purplemath~~
Solving factored quadratic equations. Suppose we are asked to solve the quadratic

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Equation. $(x - 1)(x + 3) = 0$. $(x-1)(x+3)=0$ $(x - 1)(x + 3) = 0$. left parenthesis, x, minus, 1, right parenthesis, left parenthesis, x, plus, 3, right parenthesis, equals, 0. .

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~~Solving quadratic equations by factoring (article) | Khan ...~~

Solving Quadratic Equations by Factoring. From the example above, the quadratic problem simply reduces to a

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linear problem which can be solved by simple factorization. Example 1:

$$\text{Given } x^2 + 5x + 6 = 0 \quad \left(x + 3\right)\left(x + 2\right) = 0$$

(factoring the polynomial)

$$\left(x + 3\right) = 0 \quad \text{OR}$$

$$\left(x + 2\right) = 0. \quad \text{Thus}$$

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The example above shows that it is indeed easy to solve quadratics by factoring method. However, the method only works for the most basic equations.

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Factoring a quadratic equation can be defined as the process of breaking the equation into the product of its factors. In other words, we can also say that

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Factorization is the reverse of multiplying out. In order to solve the quadratic equation $ax^2 + bx + c = 0$ by factorization, the following steps are used:

~~Factoring Quadratic~~

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~~Examples~~

Solving Quadratic Equations
by Factoring with a Leading
Coefficient of 1 - Procedure

(i) In a quadratic equation
in the form $ax^2 + bx + c = 0$,
if the leading

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coefficient is 1, we have to decompose the constant term "c" into two factors.

~~Solving Quadratic Equations
by Factoring Examples~~

To solve an quadratic equation using factoring :

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1. Transform the equation using standard form in which one side is zero. 2.

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Solving Quadratic Equations by Factorising. Quadratics

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are algebraic expressions that include the term, x^2 , in the general form, $ax^2 + bx + c$. If you are on the foundation course, any quadratic equation you're expected to solve will always have $a=1$, with all

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terms on one side and a zero on the other. If you are on the higher course, you may have to do some rearranging in order to get all ...

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Factorising Worksheets | MME~~

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With the quadratic equation in this form: Step 1: Find two numbers that multiply to give ac (in other words a times c), and add to give b . Example: $2x^2 + 7x + \dots$ Step 2: Rewrite the middle with those numbers: Rewrite $7x$

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with 6 x and 1 x: $2x^2 + 6x + x + 3$ Step 3: Factor the first two and last two ...

~~Factoring Quadratics — MATH~~

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~~Quadratic Equation~~

~~Calculator - Symbolab Math~~

~~Solver~~

To solve this, you would use the zero product property.

If you make one of the parentheses equal to zero

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then the whole left side is equal to zero (because zero multiplied by anything is zero). So you'd set the first set of parentheses like so: $(x-2)=0$. Then to isolate "x", you would add 2 to both sides to get $x=2$.

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~~Solving quadratics by factoring (video) | Khan Academy~~

Solve the equation, with the quadratic formula: Bring all terms to one side of the equation, leaving a zero on

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the other side. Plug the coefficients into the formula.

~~How to Solve (and Factor) a Quadratic Equation with the~~
~~...~~

A quadratic equation is a

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polynomial equation in a single variable where the highest exponent of the variable is 2. There are three main ways to solve quadratic equations: 1) to factor the quadratic equation if you can do so,

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2) to use the quadratic formula, or 3) to complete the square.

~~3 Ways to Solve Quadratic Equations - wikiHow~~

Solve an equation of the form $ax^2 + bx + c = 0$ by

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using the quadratic formula:
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

a: Step-By-Step Guide. Learn all about the quadratic formula with this step-by-step guide: Quadratic Formula, The MathPapa Guide; Video Lesson. Khan Academy

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Video: Quadratic Formula 1;

~~Quadratic Formula Calculator~~
~~—MathPapa~~

If you are factoring a quadratic like x^2+5x+4 you want to find two numbers that Add up to 5 Multiply

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together to get 4 Since 1
and 4 add up to 5 and
multiply together to get 4,
we can factor it like:

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Use the Sum-Product Method in Solving Quadratic Equations by Factorizing This method is mainly used by students who find it challenging to use the guessing method, (or the

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trial and error method). Unlike the trial and error method, the Product Sum Method is generally easier to apply since it identifies an equation that cannot be factored.

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