

Factoring Polynomials Big Ideas Math

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Factoring Polynomials

Writing a polynomial as a product of factors is called factoring. To factor $x^2 + bx + c$ as $(x + p)(x + q)$, find p and q such that $p + q = b$ and $pq = c$. The diagram shows the

relationships between the signs of b and c and the signs of p and q . To factor $ax^2 + bx + c$, where $a \neq 1$, look for the GCF of the

Factoring a Polynomial

Show that $x + 3$ is a factor of $f(x) = x^4 + 3x^3 - x - 3$. Then factor $f(x)$ completely. SOLUTION Show that $f(-3) = 0$ by synthetic division.

$-3 \quad 1 \quad 3 \quad 0 \quad -1 \quad -3 \quad -3 \quad 0 \quad 0 \quad 3 \quad 1 \quad 0 \quad 0 \quad -1 \quad 0$

Because $f(-3) = 0$, you can

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conclude that $x + 3$ is a factor of $f(x)$ by the Factor

Theorem. Factoring Polynomials -

Big Ideas Learning To factor a polynomial completely, you should try each of these steps. 1. Factor out the greatest common monomial factor. $3x^2 + 6 = 3(x + 2)$ 2. Look for a difference of two squares or a perfect square trinomial. $x^2 + 4x + 4 = (x + 2)^2$

3. Factor a trinomial of the form $ax^2 + bx + c$ into a product of binomial factors. $3x^2 - 5x - 2 = (3x + 1)(x - 2)$ 4.

Factor a polynomial with four terms by grouping. Factoring Polynomials Completely - Big Ideas

Learning Section 5.4 Factoring Polynomials 233 Factoring the Sum or Difference of Two Cubes Factor (a) $x^3 - 125$ and (b) $16s^5 + 54s^2$ completely. SOLUTION a. $x^3 - 125$

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$= x^3 - 5^3$ Write as $a^3 - b^3$. $= (x - 5)(x^2 + 5x + 25)$ Difference of Two Cubes Pattern
 $b. 16s^5 + 54s^2 = 2s^2(8s^3 + 27)$ Factor common monomial. $= 2s^2 [(2s)^3 + 3^3]$

Write $8s^3 + a^3 + b^3$. 5.4 Factoring Polynomials - Big Ideas

Learning Factoring polynomials can be easy if you understand a few simple steps. This video will explain how to factor a polynomial using the greatest common factor,

... Factor Polynomials - Understand In 10 min - YouTube On the "plus" side, though, the polynomials for "factoring" exercises generally involve nicer numbers, without the complex-number values or the messy square roots common in "solving" exercises. Completely factor: $30x^5 - 166x^4 - 542x^3 + 2838x^2 + 1520x - 800$ All the

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coefficients are even, so I can factor a 2 out front. Factoring Polynomials: How-to | Purplemath

Multiplying Polynomials

To multiply two polynomials, multiply each term of the first polynomial by each term of the second polynomial. You can use a vertical or a horizontal format.

Example 1 Find (a) $5x(x^2 - 2x - 4)$ and (b) $(x - 1)(x + 3)$.

Multiplying Polynomials

Polynomials follow these steps: Check for the GCF first. The expression won't have GCF when you break it down and look at it, according to the steps in... Multiply the quadratic term and the constant term. Be careful of the signs when you do this. In this example, the... Write down all the factors of the ...

... How to Factor a Polynomial

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Instructions. Choose your answers to the questions and click 'Next' to see the next set of questions. Big

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calculator will try to factor any polynomial (binomial, trinomial, quadratic, etc.), with steps shown.

The following methods are used:

factoring monomials (common factor), factoring quadratics,

grouping and regrouping, square of sum/difference, cube of

sum/difference, difference of

squares, sum/difference of cubes, the rational zeros

theorem. Factoring Polynomials

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