



UNIT 1: RATIONAL EXPRESSIONS AND EQUATION
Review of Factoring Polynomials

Factoring Polynomials:

- Factoring is the reverse process of multiplication. When a number or polynomial is written in factored form, it is expressed as a product of two or more factors.

Methods in Factoring Polynomials:

1. Factoring the Greatest Common Factor

Identify the greatest common factor of all terms in a polynomial, then factor it out by dividing every term by the GCF and writing the quotient as the second factor

Example:

$$\begin{aligned} 8x^2y^3 - 12x^3y \\ = 4x^2y \left(\frac{8x^2y^3}{4x^2y} - \frac{12x^3y}{4x^2y} \right) \\ = 4x^2y(2y^2 - 3x) \end{aligned}$$

2. Factoring the Difference of Two Squares

If a polynomial is written as $x^2 - y^2$, then it can be factored into $(x + y)(x - y)$

Example:

$$\begin{aligned} x^2 - 4y^2 \\ \sqrt{x^2} = x; \sqrt{4y^2} = 2y \\ = (x + 2y)(x - 2y) \end{aligned}$$

3. Factoring the Sum and Difference of Two Cubes

A polynomial written as a sum or difference of two cubes can be factored into the following:

$$\begin{aligned} x^3 + y^3 &= (x + y)(x^2 - xy + y^2) \\ x^3 - y^3 &= (x - y)(x^2 + xy + y^2) \end{aligned}$$

Example:

$$\begin{aligned} 8x^3 - y^3 \\ \sqrt[3]{8x^3} = 2x; \sqrt[3]{y^3} = y \\ = (2x - y)((2x)^2 + 2xy + y^2) \\ = (2x - y)(4x^2 + 2xy + y^2) \end{aligned}$$

4. Factoring Trinomials

Polynomials written in the form $ax^2 + bx + c$, can be factored by either trial and error or AC Method.

Trial and Error:

If the leading coefficient is 1, identify factors of the last term whose sum is equal to the coefficient of the middle term.

If the leading coefficient is not 1, identify factors of the last term and leading coefficient, find pairs of products whose sum will be equal to the coefficient of the middle term

AC Method:

Multiply the leading coefficient with the constant term of the trinomial. Find factors of the product whose sum is equal to the coefficient of the middle term, write these as the second terms of the binomial

Example:

Trial and Error

$$x^2 + 4x - 45$$

Factors of -45 whose sum is 4 are -9 and 5, therefore;

$$= (x - 9)(x + 5)$$

$$\begin{array}{r} 3x^2 + 14x - 24 \\ 1 \quad \quad \quad 6 \quad +18 \\ 3 \quad \quad \quad -4 \quad -4 \\ \hline \quad \quad \quad \quad \quad = 14 \end{array}$$

$$= (3x - 4)(x + 6)$$

AC Method:

$$2x^2 - 29x + 90$$

$$\begin{aligned} A &= 2 & B &= -29 & C &= 90 \\ & & (2x + \underline{\quad})(2x + \underline{\quad}) & & \\ & & AC &= 180 & \\ & & (-20) \cdot (-9) &= 180 = AC \end{aligned}$$

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Table of Contents Algebra If8762 Polynomials

1. Understanding the eBook Algebra If8762 Polynomials
 - The Rise of Digital Reading Algebra If8762 Polynomials
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra If8762 Polynomials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra If8762 Polynomials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra If8762 Polynomials
 - Personalized Recommendations
 - Algebra If8762 Polynomials User Reviews and Ratings
 - Algebra If8762 Polynomials and Bestseller Lists
5. Accessing Algebra If8762 Polynomials Free and Paid eBooks
 - Algebra If8762 Polynomials Public Domain eBooks
 - Algebra If8762 Polynomials eBook Subscription Services

- Algebra If8762 Polynomials Budget-Friendly Options
- 6. Navigating Algebra If8762 Polynomials eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra If8762 Polynomials Compatibility with Devices
 - Algebra If8762 Polynomials Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra If8762 Polynomials
 - Highlighting and Note-Taking Algebra If8762 Polynomials
 - Interactive Elements Algebra If8762 Polynomials
- 8. Staying Engaged with Algebra If8762 Polynomials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra If8762 Polynomials
- 9. Balancing eBooks and Physical Books Algebra If8762 Polynomials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra If8762 Polynomials
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra If8762 Polynomials
 - Setting Reading Goals Algebra If8762 Polynomials
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra If8762 Polynomials
 - Fact-Checking eBook Content of Algebra If8762 Polynomials
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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