



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;

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

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

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

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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