Add or subtract polynomials 3 1 10 d 4 n 5 8n 3 3

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Polynomials: A Comprehensive Guide**

Understanding Polynomials

- **Definition:** A polynomial is an algebraic expression composed of variables and constants, linked by addition or subtraction operations only.
- **Degree:** The highest power of the variable in a polynomial determines its degree.
- **Types:** Polynomials can be monomials (one term), binomials (two terms), trinomials (three terms), or higher-order polynomials.

Identifying Polynomials

- Key Features:
 - Variables raised to non-negative integer powers
 - Constants added or subtracted
- Examples of Polynomials:
 - \circ x^2 + 3x 5
 - \circ 2y^3 4y^2 + 7
- Examples of Non-Polynomials:
 - x^-1 (Negative exponent)

- ?x (Non-integer exponent)
- sin(x) (Trigonometric function)

Operations on Polynomials

Addition and Subtraction:

- Add or subtract like terms (terms with the same variable and exponent)
- For fractional polynomials, convert to a common denominator before adding or subtracting
- Example: $(x^2 + 3x 5) + (2x^2 4x + 7) = 3x^2 x + 2$

Multiplication:

- Use the distributive property and FOIL method
- Example: $(x + 2)(x 3) = x^2 x 6$

Special Polynomials

- Constant Polynomial: A polynomial with a degree of 0, consisting only of a constant, e.g., 3
- Monomial: A polynomial with one term, e.g., 21
- Polynomial 10: An algebraic expression whose highest degree is 10
- End Behavior of a Graph: The behavior of a polynomial function as the input approaches positive or negative infinity

Classification of Polynomials

- Order: Refers to the degree of a polynomial, e.g., order 3 for a polynomial with x^3 as its highest term
- **Degree:** The highest power of the variable present in a polynomial

Polynomials in Real-World Applications

Modeling curves and shapes

- Physics and engineering equations
- Computer science algorithms
- Finance and economics

Common Questions

- Is ? a polynomial? No, ? is not a polynomial as it has a non-integer exponent.
- Are all polynomials algebraic? Yes, polynomials are a subset of algebraic expressions.
- What is the sum of the polynomials 7x³ + 4x² and 2x³ + 4x²? 9x³ + 8x²
- How to subtract the polynomial 2x³y² 4x²y³ + 3xy⁴ 6x⁴y +
 5x²y³ y⁵ from the polynomial 6x³y² 6x²y³ + 8xy⁴ 12x⁴y + 3x²y³ + 2y⁵? -4x³y² + 8x²y³ 5xy⁴ + 6x⁴y + 18x²y³ 3y⁵
- Is 8 a polynomial? Yes, 8 is a constant polynomial with a degree of 0.

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