

Adding and Subtracting Polynomials

$$3x^6 - x^4 + 2$$

Polynomial - A sum or difference of monomials/terms.

Degree - The exponent in a polynomial with the greatest value.

Standard Form - The exponents are arranged in descending order.

1. Find the sum or difference using horizontal form.

a) $(5x^3 - 6x^2 + x - 1) + (6x^3 + 4x^2 - 7x + 10)$

b) $(-6x^2 + x - 8) + (-4x^2 + 18)$

c) $(3x^2 - 5x + 7) - (2x^2 - 5x + 6)$

2. Find the sum or difference using vertical form.

a) $(-8x^4 + x^2 - 2) + (5x^3 + x^2 - 7x + 8)$

b) $(2x^2 + 4x) - \left(\frac{1}{2}x^2 - 2x\right)$

3. Write an expression for the perimeter of the triangle.

