

Polynomials #2

Example:

1) $(4x^4 + 7x + 8x^3) - (4x^4 + 3x - 4x^3)$

$$4x^4 + 7x + 8x^3 - 4x^4 - 3x + 4x^3$$
$$4x + 12x^3$$

Solution:

$$12x^3 + 4x$$

Binomial

Degree: 3

Leading Coefficient: 12

Simplify each expression. Put your solution in standard form. State whether your solution is a monomial, binomial, or trinomial. Then state the degree and leading coefficient of your solution.

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

3) $(2n^2 - 4) - (6n^2 - 3n^4)$

4) $(5 + 8r^2) + (4 - 8r^2)$

5) $(3x^4 - 4x^3) - (7x^4 - 6x^3)$

6) $(6a^4 - 3a^3) + (8 + 3a^4 - 5a^3)$

7) $(1 - 4a^2) + (4a^2 + a^4 + 7)$

8) $(k^3 - 5k^4 - 7) - (8 - 4k^4 - 7k^3)$

9) $(8x^4 + 8x^2 + 3x^3) + (2x^4 + 4x^3 - 8x^2)$