

Polynomials #4

Simplify each expression. Put each solution in standard form. State the degree and leading coefficient. State whether the polynomial is a monomial, binomial, trinomial or polynomial with more than 3 terms.

1) $(2x^4 + 4x^3) - (2x^4 + 4x^3)$

2) $(m + 7) - (4m^2 + 2 + 6m)$

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

4) $(4n + 3n^3 + 4 - 3n^4) + (7n^4 - 7n^3 - 4)$

5) $(7r^2 + 7r^3) - (4r^2 + 3r^3 - r^4) + (7r^4 - 4r^3)$

6) $(4x^3 - 7) - (8x^3 - 8x^2) - (4 - 2x^4)$

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

8) $(7x^3 + 2x - 7x^2) + (6 + x^3 + 8x^4) - (6x - 7x^3 - 2)$