

Polynomials #3

Simplify each expression. Put each solution in standard form.

1) $(5x^4 + 2) + (2 - x^2 - 8x) + (2x + 2 + 4x^2)$

2) $(2 - 8k^2) - (5k^4 + 5 + k^2) - (6k^4 - 3 + 2k^2)$

3) $(8n - 3n^4) + (7n^4 + 4 + 7n) - (7 - 6n + 5n^4)$

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

5) $(8 + 4b^2 - 3b^3) - (3b^4 - 5b^2 + 5b^3) + (4b^4 - 3b^3 - 4b^2)$

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

7) $(4 + 5n^4 + 6n^3) - (3n^4 + n^2 - 2n^3) - (3n^3 - 4n^4 + 7)$

8) $(5p^3 + 6p + 5) + (6p^3 - 6p - 2p^2) + (2p^2 - 2p^3 + 6)$

9) $(7n^4 - 3n^2 - 4n + 3) - (6n^4 + 1) + (2 - 2n^3 + 3n^2 - 6n^4)$

10) $(6x^3 - x^4 + 5 - 7x^2) - (2x^4 - 4x^2) - (2x^3 - 8x^2 + x^4 + 1)$

11) $(8n + 2n^3 - 8n^4 + 7) + (5n^4 - 6) + (5n^2 - 3n + 8n^4 + 1)$

12) $(3k^3 - 2k^4 + 4k^2 - 2) - (8k^4 + 5k^3) - (6 - 4k^3 + 3k^2 - 5k)$