

Adding and Subtracting Polynomials

Simplify each sum or difference.

1) $(5n^3 + 5n^2) + (8n^2 - 8n^3)$

2) $(4a^2 - 6a^4) + (7a^4 - 3)$

3) $(6 + 6n) + (3n - 7)$

4) $(2 + 5b) - (8 + 7b)$

5) $(3p - 5p^3) - (5p - p^3)$

6) $(8 + 2p) - (7p + 5)$

Simplify each sum or difference.

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

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

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

10) $(3 - 3x - 7x^2) - (x^2 - 2x - 5)$

Adding and Subtracting Polynomials

Simplify each sum or difference.

$$1) (5n^3 + 5n^2) + (8n^2 - 8n^3)$$
$$-3n^3 + 13n^2$$

$$2) (4a^2 - 6a^4) + (7a^4 - 3)$$
$$a^4 + 4a^2 - 3$$

$$3) (6 + 6n) + (3n - 7)$$
$$9n - 1$$

$$4) (2 + 5b) - (8 + 7b)$$
$$-2b - 6$$

$$5) (3p - 5p^3) - (5p - p^3)$$
$$-4p^3 - 2p$$

$$6) (8 + 2p) - (7p + 5)$$
$$-5p + 3$$

Simplify each sum or difference.

$$7) (5n - 6 - n^2) + (3 + 5n^2 + 7n)$$
$$4n^2 + 12n - 3$$

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

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

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