

Adding and Subtracting Polynomials

Simplify each expression.

1) $(8p^3 + p - 5p^2) + (1 - 7p - 3p^2)$

2) $(8 + 5p^4 - p) - (7p - 6 + 5p^4)$

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

4) $(7v^2 + 4v^3 + 3v) + (3v^4 - 2v^2 + 2v)$

5) $(2 - 4k) - (7k - 4 + 2k^2)$

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

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

8) $(2n^2 - 6n^4 + 2n) - (-4n^2 + 6n^4 - 5)$

9) $(-7m^3 - 5 + 8m) + (5m^3 - 8m - 6m^4)$

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

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

12) $(2n^4 - 8n^2 - 6n) - (8n^4 + 2n - 6n^2)$



Adding and Subtracting Polynomials

Simplify each expression.

1) $(8p^3 + p - 5p^2) + (1 - 7p - 3p^2)$

$$8p^3 - 8p^2 - 6p + 1$$

2) $(8 + 5p^4 - p) - (7p - 6 + 5p^4)$

$$-8p + 14$$

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

$$9m^4 - 7m^3 - m^2 + 8$$

4) $(7v^2 + 4v^3 + 3v) + (3v^4 - 2v^2 + 2v)$

$$3v^4 + 4v^3 + 5v^2 + 5v$$

5) $(2 - 4k) - (7k - 4 + 2k^2)$

$$-2k^2 - 11k + 6$$

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

$$-7n^3 + 3n^2 + 8n$$

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

$$x^4 + 9x^3 + x$$

8) $(2n^2 - 6n^4 + 2n) - (-4n^2 + 6n^4 - 5)$

$$-12n^4 + 6n^2 + 2n + 5$$

9) $(-7m^3 - 5 + 8m) + (5m^3 - 8m - 6m^4)$

$$-6m^4 - 2m^3 - 5$$

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

$$-12x^4 + x^3 - 13x$$

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

$$9n^4 + 10n - 2$$

12) $(2n^4 - 8n^2 - 6n) - (8n^4 + 2n - 6n^2)$

$$-6n^4 - 2n^2 - 8n$$