

Assignment

Date _____ Period _____

Simplify each expression.

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

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

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

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

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

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

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

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

9) $(5p^3 + 3 + 2p^4 + 2p) - (5p + 6p^4 + 8p^3 + 8) - (3 - 2p^3 + 8p)$

10) $(6n^4 - 6n - 2n^3 - 4n^2) - (n^3 - 7n^4 - 4n^2 + 7n) - (2n^2 - n - 3n^4)$

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

$$12) (3 - 2x^4 + 7x - 4x^2) + (4x + 7 + 2x^2 + 6x^4) - (8x - 4x^4 + 2x^2)$$

Find each product.

$$13) (2x + 7)(7x - 8)$$

$$14) (8b + 5)(b - 1)$$

$$15) (n - 5)(8n - 8)$$

$$16) (7p + 4)(5p + 7)$$

$$17) (8b^2 - 6b - 6)(5b + 7)$$

$$18) (6m^2 + m - 1)(6m - 1)$$

$$19) (v^2 - 6v - 8)(6v - 1)$$

$$20) (4r^2 - 2r - 1)(7r + 3)$$

$$21) (k^2 + 6k + 1)(5k^2 + 6k - 4)$$

$$22) (8n^2 + 4n + 4)(4n^2 + n - 3)$$

$$23) (3n^2 - n + 7)(5n^2 + 4n + 5)$$

$$24) (6r^2 + r + 8)(8r^2 - 6r - 2)$$