

7-3a Multiplying Polynomials (Distributive Property) Date _____ Period _____

Name each polynomial by degree and number of terms.

1) 7

2) $5b^2 - 7b$

3) $-8x^5 + 6x^4$

4) $-5p^6 - 6p^2$

5) 9

6) $8n + 4$

Simplify each expression.

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

8) $(6m^2 - m - 8m^4) - (3m^2 - 4m^4 + 6m)$

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

10) $(m^3 - 5m - 6m^4) + (2m^4 + 4m^3 - m)$

11) $(6x^3 + x^4 - 2x^2) - (6x - 8x^2 + 8x^4)$

12) $(5r^2 - 6r - 7r^4) - (8r^4 + 8 - 3r)$

$$13) 5(10 - p)$$

$$14) 3(-6m + 1)$$

$$15) -4(-2 - 5n)$$

$$16) -7(-6 - 5n)$$

$$17) -7n(1 + 10n)$$

$$18) -6x(x + 4)$$

$$19) 9k(10k + 3)$$

$$20) x(-3x - 6)$$

$$21) -10n(1 - n)$$

$$22) -6b(5 - 7b)$$

$$23) -2(n + 7)$$

$$24) -2(1 + r)$$