

2.3 Multiplying Polynomials

Date _____ Period _____

Find each product.

1) $2(2v + 8)$

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

3) $3x(3x + 4)$

4) $8a(8a + 5)$

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

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

7) $6b^3(8b^2 - b + 3)$

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

$$9) (8x - 7)(6x - 8)$$

$$10) (8n + 3)(2n + 8)$$

$$11) (2a - 1)(7a + 2)$$

$$12) (2x - 4)(x + 8)$$

$$13) (5x - 6)(7x^2 - 8x + 5)$$

$$14) (6n + 8)(5n^2 + 5n - 2)$$

$$15) (8r + 1)(7r^2 + 5r + 6)$$

$$16) (3m - 4)(6m^2 - 6m - 5)$$

2.3 Multiplying Polynomials

Find each product.

1) $2(2v + 8)$

$4v + 16$

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

$35n^3 + 15n^2$

3) $3x(3x + 4)$

$9x^2 + 12x$

4) $8a(8a + 5)$

$64a^2 + 40a$

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

$18r^2 - 3r + 9$

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

$18m^3 + 24m^2 - 30m$

7) $6b^3(8b^2 - b + 3)$

$48b^5 - 6b^4 + 18b^3$

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

$8x^6 + 20x^5 - 4x^4$

$$9) (8x - 7)(6x - 8)$$
$$48x^2 - 106x + 56$$

$$10) (8n + 3)(2n + 8)$$
$$16n^2 + 70n + 24$$

$$11) (2a - 1)(7a + 2)$$
$$14a^2 - 3a - 2$$

$$12) (2x - 4)(x + 8)$$
$$2x^2 + 12x - 32$$

$$13) (5x - 6)(7x^2 - 8x + 5)$$
$$35x^3 - 82x^2 + 73x - 30$$

$$14) (6n + 8)(5n^2 + 5n - 2)$$
$$30n^3 + 70n^2 + 28n - 16$$

$$15) (8r + 1)(7r^2 + 5r + 6)$$
$$56r^3 + 47r^2 + 53r + 6$$

$$16) (3m - 4)(6m^2 - 6m - 5)$$
$$18m^3 - 42m^2 + 9m + 20$$