

## Multiplying Polynomials

**Find each product.**

1)  $6v(2v + 3)$

$12v^2 + 18v$

2)  $7(-5v - 8)$

$-35v - 56$

3)  $2x(-2x - 3)$

$-4x^2 - 6x$

4)  $-4(v + 1)$

$-4v - 4$

5)  $(2n + 2)(6n + 1)$

$12n^2 + 14n + 2$

6)  $(4n + 1)(2n + 6)$

$8n^2 + 26n + 6$

7)  $(x - 3)(6x - 2)$

$6x^2 - 20x + 6$

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

$48p^2 + 4p - 4$

9)  $(6p + 8)(5p - 8)$

$30p^2 - 8p - 64$

10)  $(3m - 1)(8m + 7)$

$24m^2 + 13m - 7$

11)  $(2a - 1)(8a - 5)$

$16a^2 - 18a + 5$

12)  $(5n + 6)(5n - 5)$

$25n^2 + 5n - 30$

$$13) (4p - 1)^2$$
$$16p^2 - 8p + 1$$

$$14) (7x - 6)(5x + 6)$$
$$35x^2 + 12x - 36$$

$$15) (6n + 3)(6n - 4)$$
$$36n^2 - 6n - 12$$

$$16) (8n + 1)(6n - 3)$$
$$48n^2 - 18n - 3$$

$$17) (6k + 5)(5k + 5)$$
$$30k^2 + 55k + 25$$

$$18) (3x - 4)(4x + 3)$$
$$12x^2 - 7x - 12$$

$$19) (4a + 2)(6a^2 - a + 2)$$
$$24a^3 + 8a^2 + 6a + 4$$

$$20) (7k - 3)(k^2 - 2k + 7)$$
$$7k^3 - 17k^2 + 55k - 21$$

$$21) (7r^2 - 6r - 6)(2r - 4)$$
$$14r^3 - 40r^2 + 12r + 24$$

$$22) (n^2 + 6n - 4)(2n - 4)$$
$$2n^3 + 8n^2 - 32n + 16$$

$$23) (6n^2 - 6n - 5)(7n^2 + 6n - 5)$$
$$42n^4 - 6n^3 - 101n^2 + 25$$