

Multiplying Binomials

Find each product.

1) $(3n + 2)(n + 3)$

$$3n^2 + 11n + 6$$

2) $(n - 1)(2n - 2)$

$$2n^2 - 4n + 2$$

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

$$4x^2 - 9$$

4) $(r + 1)(r - 3)$

$$r^2 - 2r - 3$$

5) $(2n + 3)(2n + 1)$

$$4n^2 + 8n + 3$$

6) $(3p - 3)(p - 1)$

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

7) $(3p + 3)(3p + 2)$

$$9p^2 + 15p + 6$$

8) $(k - 2)(k - 3)$

$$k^2 - 5k + 6$$

9) $(v - 1)(3v - 3)$

$$3v^2 - 6v + 3$$

10) $(2x - 3)(3x + 3)$

$$6x^2 - 3x - 9$$

11) $(4n + 4)(5n - 8)$

$$20n^2 - 12n - 32$$

12) $(5x - 2)(5x - 8)$

$$25x^2 - 50x + 16$$

13) $(6x + 2)(2x + 8)$

$$12x^2 + 52x + 16$$

14) $(3x + 3)(x + 4)$

$$3x^2 + 15x + 12$$

15) $(5v + 4)(3v - 6)$

$$15v^2 - 18v - 24$$

16) $(x - 4)(x - 7)$

$$x^2 - 11x + 28$$

17) $(5x + 6)(8x - 4)$

$$40x^2 + 28x - 24$$

18) $(8b - 1)(5b - 5)$

$$40b^2 - 45b + 5$$