

8-3 Study Guide and Intervention

Multiplying Polynomials

Multiply Binomials To multiply two binomials, you can apply the Distributive Property twice. A useful way to keep track of terms in the product is to use the FOIL method as illustrated in Example 2.

Example 1: Find $(x + 3)(x - 4)$.

Horizontal Method

$$\begin{aligned}(x + 3)(x - 4) &= x(x - 4) + 3(x - 4) \\ &= (x)(x) + x(-4) + 3(x) + 3(-4) \\ &= x^2 - 4x + 3x - 12 \\ &= x^2 - x - 12\end{aligned}$$

Vertical Method

$$\begin{array}{r} x + 3 \\ (x) \underline{x - 4} \\ - 4x - 12 \\ \hline x^2 + 3x \\ - 4x - 12 \\ \hline x^2 - x - 12\end{array}$$

The product is $x^2 - x - 12$.

Example 2: Find $(x - 2)(x + 5)$ using the FOIL method.

$$\begin{aligned}(x - 2)(x + 5) &= \begin{array}{cccc} & \text{First} & \text{Outer} & \text{Inner} & \text{Last} \\ & (x)(x) & + (x)(5) & + (-2)(x) & + (-2)(5) \\ & = x^2 & + 5x & + (-2x) & - 10 \\ & = x^2 & + 3x & - 10 & \end{array}\end{aligned}$$

The product is $x^2 + 3x - 10$.

Exercises

Find each product.

1. $(x + 2)(x + 5)$
 $x^2 + 7x + 10$

2. $(x - 4)(x + 5)$
 $x^2 + x - 20$

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

4. $(y - 4)(y + 2)$
 $y^2 - 2y - 8$

5. $(y + 5)(y + 2)$
 $y^2 + 7y + 10$

6. $(2x - 3)(x + 5)$
 $2x^2 + 7x - 15$

7. $(2x - 4)(2x - 4)$
 $4x^2 - 16x + 16$

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

9. $(2x + 4)(2x - 4)$
 $4x^2 - 16$

10. $(2x + 3)(2x + 2)$
 $4x^2 + 10x + 6$

11. $(x - 4)(x - 5)$
 $x^2 - 9x + 20$

12. $(x + 4)(2x - 4)$
 $2x^2 - 2x - 16$

13. $(2x - 3)(2x - 2)$
 $4x^2 - 10x + 6$

14. $(x - 3)(2x - 5)$
 $2x^2 - 11x + 15$

15. $(x - 3)(2x + 5)$
 $2x^2 + x - 15$

16. $(2x - 4)(2x + 5)$
 $4x^2 + 2x - 20$

17. $(2x - 2)(2x - 5)$
 $4x^2 - 12x + 10$

18. $(2y - 4)(2y + 4)$
 $4y^2 - 16$

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