

8-4 Study Guide and Intervention

Special Products

Squares of Sums and Differences Some pairs of binomials have products that follow specific patterns. One such pattern is called the *square of a sum*. Another is called the *square of a difference*.

Square of a Sum	$(a + b)^2 = (a + b)(a + b) = a^2 + 2ab + b^2$
Square of a Difference	$(a - b)^2 = (a - b)(a - b) = a^2 - 2ab + b^2$

Example 1: Find $(3a + 4)(3a + 4)$.

Use the square of a sum pattern, with $a = 3a$ and $b = 4$.

$$(3a + 4)(3a + 4) = (3a)^2 + 2(3a)(4) + (4)^2$$

$$= 9a^2 + 24a + 16$$

The product is $9a^2 + 24a + 16$.

Example 2: Find $(2x - 9)(2x - 9)$.

Use the square of a difference pattern with $a = 2x$ and $b = 9$.

$$(2x - 9)(2x - 9) = (2x)^2 - 2(2x)(9) + (9)(9)$$

$$= 4x^2 - 36x + 81$$

The product is $4x^2 - 36x + 81$.

Exercises

Find each product.

1. $(x - 6)^2$

$$x^2 - 12x + 36$$

4. $(2x - 1)^2$

$$4x^2 - 4x + 1$$

7. $(a + 3)^2$

$$a^2 + 6a + 9$$

10. $(8y + 4)^2$

$$64y^2 + 64y + 16$$

13. $(2x - 8)^2$

$$4x^2 - 32x + 64$$

16. $(x^3 - 1)^2$

$$x^6 - 2x^3 + 1$$

19. $(x - 4y^2)^2$

$$x^2 - 8xy^2 + 16y^4$$

2. $(3p + 4)^2$

$$9p^2 + 24p + 16$$

5. $(2h + 3)^2$

$$4h^2 + 12h + 9$$

8. $(3 - p)^2$

$$9 - 6p + p^2$$

11. $(8 + x)^2$

$$64 + 16x + x^2$$

14. $(x^2 + 1)^2$

$$x^4 + 2x^2 + 1$$

17. $(2h^2 - k^2)^2$

$$4h^4 - 4h^2k^2 + k^4$$

20. $(2p + 4r)^2$

$$4p^2 + 16pr + 16r^2$$

3. $(4x - 5)^2$

$$16x^2 - 40x + 25$$

6. $(m + 5)^2$

$$m^2 + 10m + 25$$

9. $(x - 5y)^2$

$$x^2 - 10xy + 25y^2$$

12. $(3a - 2b)^2$

$$9a^2 - 12ab + 4b^2$$

15. $(m^2 - 2)^2$

$$m^4 - 4m^2 + 4$$

18. $(\frac{2}{3}x + 3)^2$

$$\frac{4}{9}x^2 + \frac{4}{3}x + 9$$

21. $(\frac{2}{3}x - 2)^2$

$$\frac{4}{9}x^2 - \frac{8}{3}x + 4$$

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Wenbin Ji



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