

**2.3****Practice A**

In Exercises 1–9, find the product.

1.  $(x + 7)^2$

2.  $(2w - 3)^2$

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

4.  $(n + 4)(n - 4)$

5.  $(v - 7)(v + 7)$

6.  $(5x + 2)(5x - 2)$

7.  $(6 + a)(6 - a)$

8.  $\left(\frac{1}{3} + p\right)\left(\frac{1}{3} - p\right)$

9.  $(x + 2y)(x - 2y)$

In Exercises 10–12, use special product patterns to find the product.

10.  $19 \cdot 21$

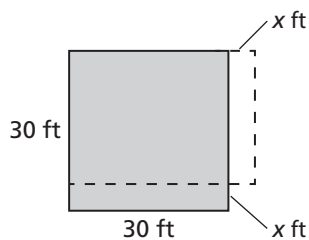
11.  $49 \cdot 51$

12.  $33^2$

13. Describe and correct the error in finding the product.

$$\begin{array}{l} \times (x - 5)^2 = x^2 - 5^2 \\ = x^2 - 25 \end{array}$$

14. A contractor modifies the size of a kitchen.



- a. The area of the room after the modification is represented by  $(30 + x)(30 - x)$ . Find the product.
- b. Use the polynomial in part (a) to find the area when  $x = 6$ . Which room has the larger area, the original room or the new room? Explain.

In Exercises 15 and 16, find the product.

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

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