Name _____ Date _____

# 7.3 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.** $19 \bullet 21$

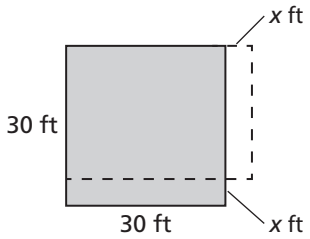
**11.** $49 \bullet 51$

**12.** $33^2$

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

$$\times \quad (x - 5)^2 = x^2 - 5^2$$
$$= x^2 - 25$$

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