

## 9.3 P. 572 # 3 - 18 all, 23 - 37 odd

**SQUARE OF A BINOMIAL** Find the product.

3.  $(x + 8)^2$

4.  $(a + 6)^2$


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


6.  $(t - 7)^2$

7.  $(n - 11)^2$

8.  $(6b - 1)^2$

**ERROR ANALYSIS** Describe and correct the error in multiplying.

9.  $(s - 3)^2 = s^2 + 9$  

10.  $(2d - 10)^2 = 4d^2 - 20d + 100$  

**SUM AND DIFFERENCE PATTERN** Find the product.

11.  $(t + 4)(t - 4)$

12.  $(m - 6)(m + 6)$

13.  $(2x + 1)(2x - 1)$

14.  $(3x - 1)(3x + 1)$

15.  $(7 + w)(7 - w)$

16.  $(3s - 8)(3s + 8)$

17. ★ **MULTIPLE CHOICE** Find the product  $(7x + 3)(7x - 3)$ .

- (A)  $7x^2 - 9$       (B)  $49x^2 - 9$       (C)  $49x^2 - 21x - 9$       (D)  $49x^2 - 42x - 9$

18. ★ **MULTIPLE CHOICE** Find the product  $(5n - 3)^2$ .

- (A)  $5n^2 - 9$       (B)  $25n^2 - 9$       (C)  $25n^2 - 15n + 9$       (D)  $25n^2 - 30n + 9$

**SPECIAL PRODUCT PATTERNS** Find the product.

23.  $(r + 9s)^2$

25.  $(3m + 11n)(3m - 11n)$

27.  $(3m - 7n)^2$

29.  $(3f - 9)(3f + 9)$

31.  $(3x + 8y)^2$

33.  $(2a - 5b)(2a + 5b)$

**MULTIPLYING FUNCTIONS** Perform the indicated operation using the functions  $f(x) = 3x + 0.5$  and  $g(x) = 3x - 0.5$ .

35.  $f(x) \cdot g(x)$

37.  $(g(x))^2$