

## 8-4 Practice

### Special Products

Find each product.

1.  $(n + 9)^2$

2.  $(q + 8)^2$

3.  $(x - 10)^2$

4.  $(r - 11)^2$

5.  $(p + 7)^2$

6.  $(b + 6)(b - 6)$

7.  $(z + 13)(z - 13)$

8.  $(4j + 2)^2$

9.  $(5w - 4)^2$

10.  $(6h - 1)^2$

11.  $(3m + 4)^2$

12.  $(7v - 2)^2$

13.  $(7k + 3)(7k - 3)$

14.  $(4d - 7)(4d + 7)$

15.  $(3g + 9h)(3g - 9h)$

16.  $(4q + 5t)(4q - 5t)$

17.  $(a + 6u)^2$

18.  $(5r + p)^2$

19.  $(6h - m)^2$

20.  $(k - 6y)^2$

21.  $(u - 7p)^2$

22.  $(4b - 7v)^2$

23.  $(6n + 4p)^2$

24.  $(5q + 6t)^2$

25.  $(6a - 7b)(6a + 7b)$

26.  $(8h + 3d)(8h - 3d)$

27.  $(9x + 2y^2)^2$

28.  $(3p^3 + 2m)^2$

29.  $(5a^2 - 2b)^2$

30.  $(4m^3 - 2t)^2$

31.  $(6b^3 - g)^2$

32.  $(2b^2 - g)(2b^2 + g)$

33.  $(2v^2 + 3x^2)(2v^2 + 3x^2)$

**34. GEOMETRY** Janelle wants to enlarge a square graph that she has made so that each side of the new graph will be 1 inch more than twice the original side  $g$ . What trinomial represents the area of the enlarged graph?

**35. GENETICS** In a guinea pig, pure black hair coloring  $B$  is dominant over pure white coloring  $b$ . Suppose two hybrid  $Bb$  guinea pigs, with black hair coloring, are bred.

a. Find an expression for the genetic make-up of the guinea pig offspring.

b. What is the probability that two hybrid guinea pigs with black hair coloring will produce a guinea pig with white hair coloring?