Pg 495 #2-3, 9-11, 13-15, 17-18, 25-28, 40-43, 69-71

Simplify the product.

2. $(g - 4)^2$

3. $(2r - 3)(2r + 3)$

4. A square has side length $(2x + 3)$ in. What is the area of the square?

Simplify each expression.

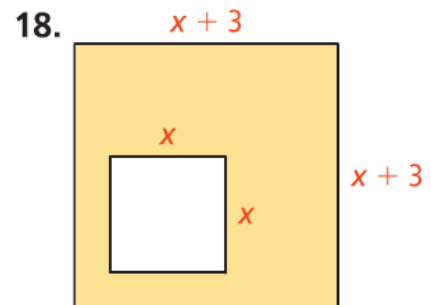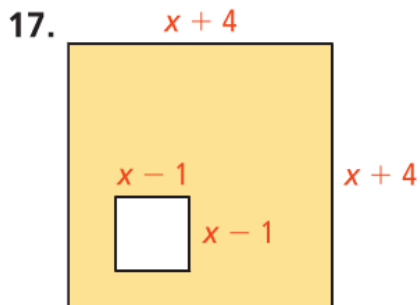**9.** $(w + 5)^2$

10. $(h + 2)^2$

11. $(3s + 9)^2$

13. $(a - 8)^2$

14. $(k - 11)^2$

15. $(5m - 2)^2$

Geometry The figures below are squares. Find an expression for the area of each shaded region. Write your answers in standard form.

17.

$x + 4$
$x - 1$
$x + 4$
$x - 1$

18.

$x + 3$
x
$x + 3$
x

Simplify each product.

25. $(v + 6)(v - 6)$

26. $(b + 1)(b - 1)$

27. $(z - 5)(z + 5)$

28. $(x - 3)(x + 3)$

40. $(9k + 2q)^2$

41. $(8r - 5s)^2$

42. $(s + 6t^2)^2$

43. $(p^4 - 9q^2)^2$

Factor each polynomial.

69. $12x^4 + 30x^3 + 42x$

70. $72x^3 + 54x^2 + 27$

71. $35x^3 + 7x^2 + 63x$