Daily Practice
7.7   Pg. 497

Multiply.

1. $(2x^2)(7x^4)$

2. $(-5mn^3)(4m^2n^2)$

3. $(6rs^2)(s^3t^2)\left(\frac{1}{2}r^4t^3\right)$

4. $\left(\frac{1}{3}a^5\right)(12a)$

5. $(-3x^4y^2)(-7x^3y)$

6. $(-2pq^3)(5p^2q^2)(-3q^4)$

7. $4(x^2 + 2x + 1)$

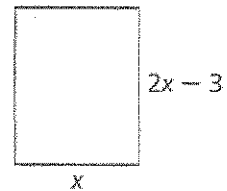**8.** $3ab(2a^2 + 3b^3)$

9. $2a^3b(3a^2b + ab^2)$

10. $-3x(x^2 - 4x + 6)$

11. $5x^2y(2xy^3 - y)$

12. $5m^2n^3 \cdot mn^2(4m - n)$

25. Photography The length of a rectangular photograph is 3
inches less than twice the width.

   a. Write a polynomial that represents the area of the photograph.

   b. Find the area of the photograph when the width is 4 inches.

$2x - 3$

x

Daily Practice
7.7B Pg. 497

Multiply.

41. $-5x(2x^2 - 3x - 1)$ **42.** $-2a^2b^3(3ab^2 - a^2b)$ **43.** $-7x^3y \cdot x^2y^2(2x - y)$

44. $(x + 5)(x - 3)$ **45.** $(x + 4)^2$ **46.** $(m - 5)^2$

47. $(5x - 2)(x + 3)$ **48.** $(3x - 4)^2$ **49.** $(5x + 2)(2x - 1)$

50. $(x - 1)(x - 2)$ **51.** $(x - 8)(7x + 4)$ **52.** $(2x + 7)(3x + 7)$

53. $(x + 2)(x^2 - 3x + 5)$ **54.** $(2x + 5)(x^2 - 4x + 3)$ **55.** $(5x - 1)(-2x^3 + 4x - 3)$

56. $(x - 3)(x^2 - 5x + 6)$ **57.** $(2x^2 - 3)(4x^3 - x^2 + 7)$ **58.** $(x - 4)^3$

59. $(x - 2)(x^2 + 2x + 1)$ **60.** $(2x + 10)(4 - x + 6x^3)$ **61.** $(1 - x)^3$

62. **Geometry** The length of the rectangle at right is 3 feet longer than its width.

    a. Write a polynomial that represents the area of the rectangle.

    b. Find the area of the rectangle when the width is 5 feet.

$x + 3$

x