Chapter 6
Exponential and Logarithmic Functions

Section 6.1

1. $f(3) = -4(3)^2 + 5(3)$
   $= -4(9) + 15$
   $= -36 + 15$
   $= -21$

2. $f(3x) = 4 - 2(3x)^2$
   $= 4 - 2(9x^2)$
   $= 4 - 18x^2$

3. $f(x) = \dfrac{x^2 - 1}{x^2 - 25}$
   $x^2 - 25 \neq 0$
   $(x + 5)(x - 5) \neq 0$
   $x \neq -5, \quad x \neq 5$
   Domain: $\{x \mid x \neq -5, \; x \neq 5\}$

4. $(g \circ f)(x)$ or $g(f(x))$

5. False

6. False. The domain of $(f \cdot g)(x)$ is a subset of the domain of $g(x)$.

7. a. $(f \circ g)(1) = f(g(1)) = f(0) = -1$
   b. $(f \circ g)(-1) = f(g(-1)) = f(0) = -1$
   c. $(g \circ f)(-1) = g(f(-1)) = g(-3) = 8$
   d. $(g \circ f)(0) = g(f(0)) = g(-1) = 0$
   e. $(g \circ g)(-2) = g(g(-2)) = g(3) = 8$
   f. $(f \circ f)(-1) = f(f(-1)) = f(-3) = -7$

8. a. $(f \circ g)(1) = f(g(1)) = f(0) = 5$
   b. $(f \circ g)(2) = f(g(2)) = f(-3) = 11$
   c. $(g \circ f)(2) = g(f(2)) = g(1) = 0$
   d. $(g \circ f)(3) = g(f(3)) = g(-1) = 0$
   e. $(g \circ g)(1) = g(g(1)) = g(0) = 1$
   f. $(f \circ f)(3) = f(f(3)) = f(-1) = 7$

9. a. $g(f(-1)) = g(1) = 4$
   b. $g(f(0)) = g(0) = 5$
   c. $f(g(-1)) = f(3) = -1$
   d. $f(g(4)) = f(2) = -2$

10. a. $g(f(1)) = g(-1) = 3$
    b. $g(f(5)) = g(1) = 4$
    c. $f(g(0)) = f(5) = 1$
    d. $f(g(2)) = f(2) = -2$

11. $f(x) = 2x \qquad g(x) = 3x^2 + 1$
    a. $(f \circ g)(4) = f(g(4))$
    $= f(3(4)^2 + 1)$
    $= f(49)$
    $= 2(49)$
    $= 98$

    b. $(g \circ f)(2) = g(f(2))$
    $= g(2 \cdot 2)$
    $= g(4)$
    $= 3(4)^2 + 1$
    $= 48 + 1$
    $= 49$

    c. $(f \circ f)(1) = f(f(1))$
    $= f(2(1))$
    $= f(2)$
    $= 2(2)$
    $= 4$

    d. $(g \circ g)(0) = g(g(0))$
    $= g(3(0)^2 + 1)$
    $= g(1)$
    $= 3(1)^2 + 1$
    $= 4$

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Richard N. Aufmann,Vernon C. Barker,Richard Nation

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