

## Chapter 6

### Exponential and Logarithmic Functions

#### Section 6.1

$$\begin{aligned} 1. \quad f(3) &= -4(3)^2 + 5(3) \\ &= -4(9) + 15 \\ &= -36 + 15 \\ &= -21 \end{aligned}$$

$$\begin{aligned} 2. \quad f(3x) &= 4 - 2(3x)^2 \\ &= 4 - 2(9x^2) \\ &= 4 - 18x^2 \end{aligned}$$

$$\begin{aligned} 3. \quad f(x) &= \frac{x^2 - 1}{x^2 - 25} \\ x^2 - 25 &\neq 0 \\ (x + 5)(x - 5) &\neq 0 \\ x &\neq -5, \quad x \neq 5 \end{aligned}$$

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  $(f \circ g)(x)$  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.  $g(f(3)) = g(-1) = 3$

b.  $g(f(5)) = g(1) = 4$

c.  $f(g(0)) = f(5) = 1$

d.  $f(g(2)) = f(2) = -2$

11.  $f(x) = 2x$       $g(x) = 3x^2 + 1$

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

# Chapter 6 Exponential And Logarithmic Functions

**Karl J. Smith, Patrick J. Boyle**



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