

Function Operations 3

Date _____ Period _____

Perform the indicated operation.

1) $g(x) = x^2 - 3x$
 $h(x) = 4x - 2$
Find $g(h(x))$

2) $f(a) = 2a + 5$
 $g(a) = -2a^3 - a^2$
Find $f(g(a))$

3) $g(x) = 3x + 3$
 $h(x) = x + 5$
Find $g(h(x))$

4) $f(x) = x - 1$
 $g(x) = 3x^3 + 3$
Find $f(g(x))$

5) $g(x) = x - 1$
Find $g(g(-1))$

6) $g(a) = a^2 - 1$
 $f(a) = -a - 5$
Find $g(f(3))$

7) $h(x) = 3x + 2$
 $g(x) = 2x - 1$
Find $h(g(-6))$

8) $f(x) = 3x - 2$
 $g(x) = x^2 + 5$
Find $f(g(3))$

9) $f(x) = x - 2$
 $g(x) = 3x^2 - x$
Find $f(g(1))$

10) $g(x) = -x^3 - 3$
 $f(x) = -2x - 4$
Find $g(f(-3))$

Answers to Function Operations 3 (ID: 1)

1) $16x^2 - 28x + 10$

2) $-4a^3 - 2a^2 + 5$

3) $3x + 18$

4) $3x^3 + 2$

5) -3

6) 63

7) -37

8) 40

9) 0

10) -11