

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Perform the indicated operation.**

1)  $g(n) = -3n - 1$   
 $f(n) = n + 2$   
Find  $(g + f)(n)$

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

3)  $g(t) = 3t + 4$   
 $h(t) = 3t + 1$   
Find  $g(t) - h(t)$

4)  $g(n) = 4n + 3$   
 $h(n) = 3n - 1$   
Find  $(g - h)(n)$

5)  $f(x) = 4x - 1$   
 $g(x) = -2x + 1$   
Find  $f(x) \cdot g(x)$

6)  $g(x) = 2x - 1$   
 $h(x) = 4x + 5$   
Find  $(g \cdot h)(x)$

7)  $g(n) = 2n + 1$   
 $h(n) = -3n^3 + 6n$   
Find  $g(n) \div h(n)$

8)  $h(a) = -2a$   
 $g(a) = a^2 + 3a$   
Find  $\left(\frac{h}{g}\right)(a)$

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

10)  $h(n) = 2n + 3$   
 $g(n) = n^2 + 3n$   
Find  $h(g(n))$

11)  $g(t) = 4t - 5$   
 $f(t) = 3t - 1$   
Find  $(g \circ f)(t)$

12)  $h(a) = a^2 - 5$   
 $g(a) = -3a + 5$   
Find  $(h \circ g)(a)$