College Math Name_____

Functions Practice

Date_____

Evaluate each function.

1) $p(n) = 3n$; Find $p(-8)$

2) $g(n) = n^2 + 5n$; Find $g(3)$

3) $h(n) = -3n - 1$; Find $h(-9)$

4) $g(t) = -3t + 2$; Find $g(10)$

5) $f(a) = -2a$; Find $f(-1)$

6) $f(x) = 4x - 2$; Find $f(x^2)$

7) $w(a) = 3a - 3$; Find $w(3a)$

8) $k(a) = 4a + 2$; Find $k(4a)$

9) $p(n) = -3n - 2$; Find $p(4n)$

10) $g(x) = -x + 4$; Find $g(-x)$

Perform the indicated operation.

11) $h(a) = 2a + 4$
$g(a) = a^3 - 3a$
Find $h(7) \div g(7)$

12) $g(a) = a + 2$
$h(a) = a + 1$
Find $(g - h)(-9)$

13) $g(n) = n^2 + 5$
$f(n) = n - 4$
Find $g(-1) \cdot f(-1)$

14) $g(x) = x^2 - 4x$
$f(x) = 2x$
Find $g(-4) + f(-4)$

15) $f(t) = t^2 + 4t$
$g(t) = -2t + 4$
Find $\left(\frac{f}{g}\right)(1)$

16) $f(n) = 3n - 4$
$g(n) = 2n - 5$
Find $(f - g)(n^2)$

17) $g(n) = n - 5$
$f(n) = 4n + 1$
Find $g(-n) - f(-n)$

18) $g(x) = 2x - 3$
$h(x) = -2x - 4$
Find $g(x + 4) + h(x + 4)$

19) $g(x) = 4x - 3$
$h(x) = x^2 + 7x$
Find $g(-x) - h(-x)$

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