ADVANCED MATH Name_____

Functions Review WS #1

Date_____ Period____

Evaluate each function.

1) $w(x) = x^2 + 5$; Find $w(-4)$

2) $h(a) = a^2 - 5a$; Find $h(-6)$

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

4) $f(x) = x + 5$; Find $f(-x)$

Perform the indicated operation.

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

6) $h(n) = -2n^2 - 4$
$g(n) = 3n + 3$
Find $(h - g)(n)$

7) $g(x) = x^2 - 4$
$h(x) = x + 5$
Find $(g - h)(-6)$

8) $h(n) = n - 3$
$g(n) = n^2 - 5 + n$
Find $(h \cdot g)(-4)$

9) $g(n) = 2n + 2$
$h(n) = n^2 - n$
Find $(g + h)(-4n)$

10) $h(a) = 3a + 5$
$g(a) = a^3 - 4$
Find $(h \cdot g)(a^2)$

11) $g(a) = a + 3$
$h(a) = 2a + 5$
Find $(g \circ h)(a)$

12) $g(n) = n + 3$
$f(n) = n^2 - 2$
Find $(g \circ f)(n)$

13) $g(x) = x + 5$
$h(x) = 3x^3 - 4x$
Find $(g \circ h)(1)$

14) $g(x) = 2x + 5$
$h(x) = -2x^2 - 4$
Find $(g \circ h)(5)$

15) $h(a) = 4a + 3$
$g(a) = a^2 + 2a$
Find $(h \circ g)(1 + a)$

16) $f(x) = x - 5$
$g(x) = x^2 + 3$
Find $(f \circ g)(x - 3)$

17) $f(n) = n + 5$
$g(n) = 4n$
Find $(3f + 4g)(n)$

18) $h(t) = t - 4$
$g(t) = t - 2$
Find $(5h + 5g)(t)$

19) $g(x) = 2x - 1$
$f(x) = x + 5$
Find $(g - 2f)(5)$

20) $f(x) = 3x - 2$
$g(x) = x^2 - 4$
Find $(2f - 5g)(-4)$

21) $f(n) = n + 1$
$g(n) = -2n^3 - n$
Find $(2f - g)(4t)$

22) $f(x) = x + 3$
$g(x) = x^2 + 2x$
Find $(3f + 5g)(4x)$