Name: _____ Date: _____

WS: More Function Notation Practice

**Directions**: Use the function definitions for each problem to answer the corresponding questions.

1. $f(x) = 6x - 3$ $g(x) = 2x + 4$ $m(x) = 2x^2 - 4x - 10$ $n(x) = 6x - 10$

   a) $f(x) + g(x)$ b) $m(x) + g(x)$ c) $n(x) + m(x)$

2. $t(n) = 5n^2 - 4n + 6$ $r(n) = 3n^2 + n - 11$ $w(n) = -2n - 10$ $v(n) = -2n^2 + 20$

   a) $t(n) - r(n)$ b) $w(n) + t(n)$ c) $r(n) - w(n)$

3. Let $f(x) = 3x - 7$ and $g(x) = 2x + 6$. Find $-5(g(x))$.

4. Let $f(x) = 4x^2 - 5x$ and $g(x) = 2x^2 + 3x - 1$. Find $3(f(x))$

5. Let $h(x) = (x - 3)^2 - 3$ $j(x) = -(x + 3)^3 - 2$ $k(x) = -x^3 + 4x^2 - 2x + 5$

   a) Find $h(5)$. b) Find $j(2)$. c) Find $k(-3)$. d) Find $j(-1)$