Composition of Functions Worksheet   Name _____

    I.   Let $f(x) = 2x - 1$, $g(x) = 3x$, and $h(x) = x^2 + 1$. Compute the following:

1. $f(g(-3))$ 2. $f(h(7))$ 3. $g(h(24))$

4. $h(f(9))$ 5. $g(f(0))$ 6. $h(g(-4))$

7. $f(g(h(2)))$ 8. $h(g(f(5)))$ 9. $g(f(h(-6)))$

II.   Let $f(x) = 9 - x$, $g(x) = x^2 + x$, and $h(x) = x - 2$. Compute the following:

10. $g(f(3))$ 11. $f(g(4))$ 12. $h(f(-6))$

13. $f(h(-3))$ 14. $h(g(11))$ 15. $g(h(-9))$

16. $g(h(f(5)))$ 17. $h(g(f(13)))$ 18. $f(g(h(-8)))$