

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. $f(g(h(-8)))$