

Composition of Functions Worksheet

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

1. $f(g(x))$

2. $f(h(x))$

3. $g(h(x))$

4. $h(f(x))$

5. $g(f(x))$

6. $h(g(x))$

7. $f(f(x))$

8. $h(h(x))$

9. $g(g(x))$

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

10. $g(f(x))$

11. $f(g(x))$

12. $h(f(x))$

13. $f(h(x))$

14. $h(g(x))$

15. $g(h(x))$

16. $g(g(x))$

17. $h(h(x))$

18. $f(f(x))$

Composition of Functions Worksheet 2

I. $f(x) = 2x - 1$ $g(x) = 3x$ $h(x) = x^2 + 1$

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. $f(f(2))$

8. $h(h(5))$

9. $g(g(-6))$

II. $f(x) = 9 - x$ $g(x) = x^2 + x$ $h(x) = x - 2$

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. $g(g(5))$

17. $h(h(13))$

18. $f(f(-8))$