

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

1. $f(g(-3))$

2. $f(h(x))$

3. $g(h(x))$

4. $h(f(9))$

5. $g(f(x))$

6. $h(g(x))$

7. $f(g(h(2)))$

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

9. $g(f(h(x)))$

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

10. $g(f(3))$

11. $f(g(x))$

12. $h(f(x))$

13. $f(h(-3))$

14. $h(g(x))$

15. $g(h(x))$

16. $g(h(f(5)))$

17. $h(g(f(x)))$

18. $f(g(h(x)))$