

DIRECTIONS: Find a real-number value or an expression in x for each of the following. If no real value can be found, say so.

$$f(x) = \frac{x}{2} ; g(x) = x - 3 ; h(x) = \sqrt{x}$$

1. $f(g(8))$

2. $f(g(-5))$

3. $f(g(0))$

4. $f(g(x))$

5. $g(f(8))$

6. $g(f(-5))$

7. $g(f(0))$

8. $g(f(x))$

9. $f(h(9))$

10. $f(h(4))$

11. $f(h(-4))$

12. $f(h(x))$

13. $h(f(32))$

14. $h(f(16))$

15. $h(f(x))$

16. $f(f(x))$

17. $h(g(12))$

18. $h(g(2))$

19. $h(g(x))$

20. $h(h(x))$

21. $g(h(9))$

22. $g(h(\sqrt{3}))$

23. $g(h(x))$

24. $g(g(x))$