

Homework 2.10 Evaluating Functions

Evaluate the following.

Consider the following functions:

$$f(x) = 2x + 1$$

$$g(x) = 3x - 3$$

$$h(x) = x^3 - 5x^2$$

$$t(x) = 4^x - 5$$

1. $f(3)$

2. $f(0)$

3. $h(-2)$

4. $g(0)$

5. $t(2)$

6. $f(x) = 3$ what is x ?

7. $g(x) = 0$ what is x ?

8. $t(3)$

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

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

11. $\frac{t(0)}{h(-1)}$

12. $g(-2) + f(-1)$

13. $f(x) - g(x)$

14. $3(f(-1))$

15. $-1 + h(1)$

16. $\frac{4}{t(1)}$

17. $g(x) = 0$ what is x ?

18. $g(-2) - 7$

19. $7x + f(x)$

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

Using the table, evaluate the following.

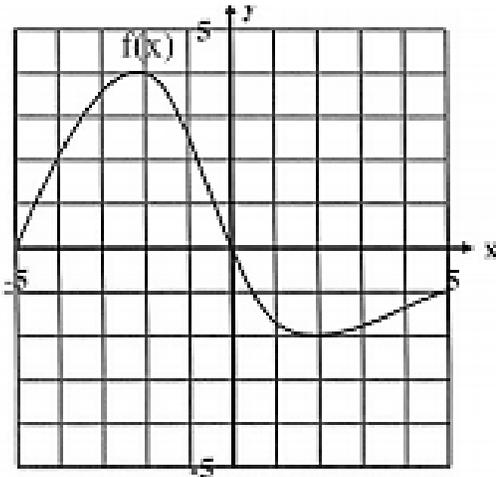
x	0	9	8	-3	2	-5	20
f(x)	-1	4	4	2	9	8	0

21. $f(-3)$ 22. $f(20)$ 23. $f(x) = 8$ 24. $f(0)$ 25. $f(x) = 4$ 26. $f(9)$ 27. $f(x) = 0$

28. $f(0) * f(8)$ 29. $3(f(-3))$ 30. $f(0) + 6$ 31. $\frac{3}{f(2)}$

32. $f(2) - f(8)$ 33. $-1(f(0))$ 34. $f(-3) - 3$ 35. $3x * f(8)$

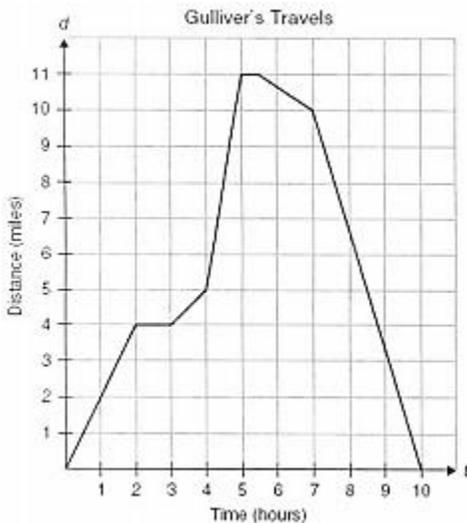
Using the graph, evaluate the following.



36. $f(-4)$ 37. $f(0)$ 38. $f(3)$ 39. $f(3)$

40. $f(x) = 2$ 41. $f(x) = 0$

The function $d(t)$ represents Gulliver's distance from home after t hours.



42. $d(2)$ 43. $d(5)$ 44. $d(10)$

45. $d(t) = 0$