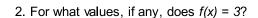
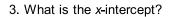
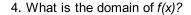
Given the graph of f(x), answer the following questions. Unless otherwise specified, restrict the domain of the function to what you see in the graph below. Approximations are appropriate answers.

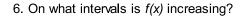


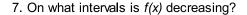


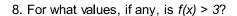


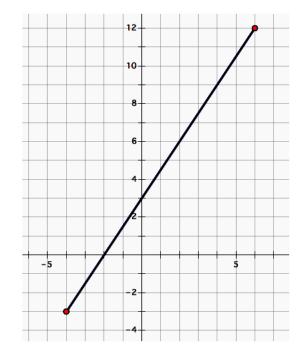


5. On what intervals is
$$f(x) > 0$$
?

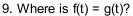








Consider the linear graph of f(t) and the nonlinear graph of g(t) to answer questions 9-14. Approximations are appropriate answers.

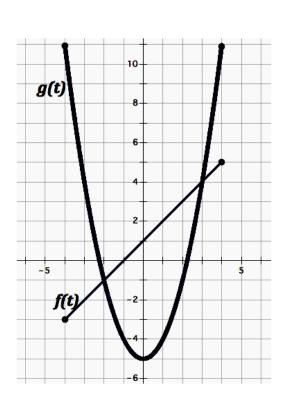


10. Where is
$$f(t) > g(t)$$
?

11. What is
$$f(0) + g(0)$$
?

12. What is
$$f(-1) + g(-1)$$
?

14. Graph:
$$f(t) + g(t)$$
 from [-1, 3]



The following table of values represents two continuous functions, f(x) and g(x). Use the table to answer the following questions:

x	f(x)	g(x)
-5	42	-13
-4	30	-9
-3	20	-5
-2	12	-1
-1	6	3
0	2	7
1	0	11
2	0	15
3	2	19
4	6	23
5	12	27
6	20	31

- 15. What is g(-3)?
- 16. For what value(s) is f(x) = 0?
- 17. For what values is f(x) increasing?
- 18. On what interval is g(x) > f(x)
- 19. Which function is changing faster in the interval [-5, 0]? Why?

Use the following relationships to answer the questions below.

$$h(x) = 2^{x}$$

$$f(x) = 3x - 2$$

$$g(x) = 5$$

$$x = 4$$

$$y = 5x + 1$$

20. Which of the above relations are functions? Explain.

- 21. Find f(2), g(2), and h(2).
- 22. Write the equation for g(x) + h(x).
- 23. Where is g(x) < h(x)?
- 24. Where is f(x) increasing?
- 25. Which of the above functions has the fastest growth rate?