

Name: _____ Period: _____

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HW 2-2 HONORS: Function Notation

Use the given equations: $f(x) = -3x + 4$ and $g(x) = x^2 - 5$ to answer the following questions.

1. $f(-2)$

6. $f(x) = 4$

11. $f(3) - g(-2)$

2. $g(0)$

7. $f(x) = 7$

12. $g(7) + 2$

3. $f(5)$

8. $f(x) = -11$

13. $3 + f(-9)$

4. $g(-4)$

9. $f(2) + g(-3)$

14. $f(0) + g(3) - 2$

5. $f(x) = 73$

10. $f(0) - 5$

Use the table below to answer the following questions. Some questions MAY have multiple answers.

x	$f(x)$
0	2
1	-3
2	0
3	2
4	6
5	12
6	20

15. $f(6)$

16. $f(x) = 2$

17. $f(0)$

18. $f(x) = 6$

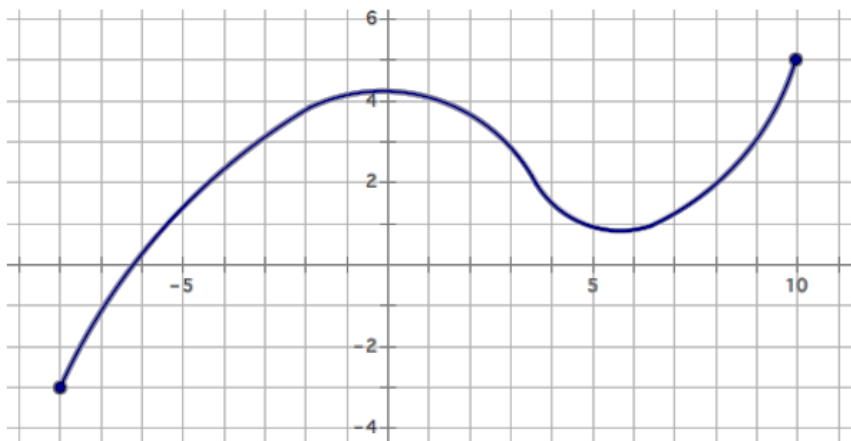
Use the functions below to answer the following questions. Some questions MAY have multiple answers.

19. $f(-3)$

20. $f(x) = 5$

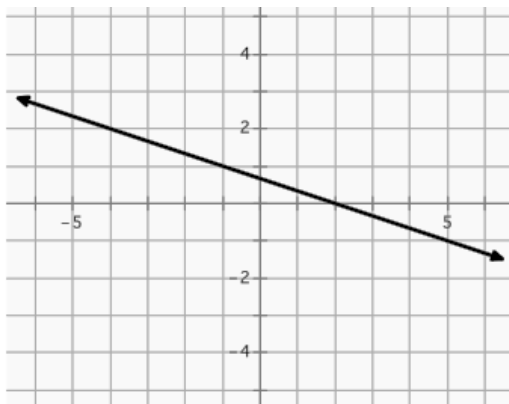
21. $f(-8)$

22. $f(x) = 3$



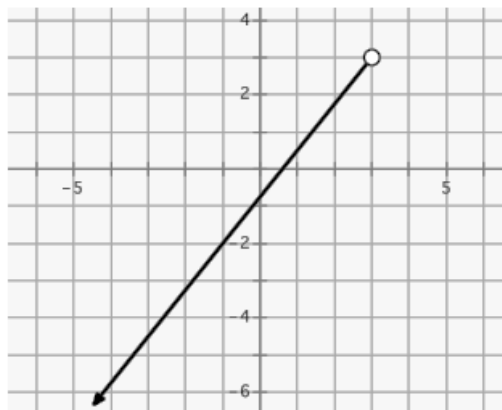
23. $f(5)$

24. $f(x) = 1$



25. $f(-1)$

26. $f(x) = 3$

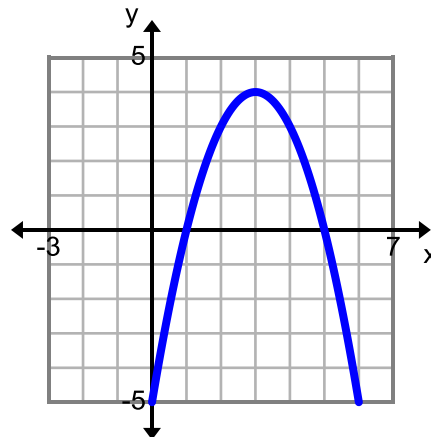


27. $f(3)$

29. $f(1)$

28. $f(x) = -5$

30. $f(x) = 3$



Find the missing value.

31. $d(x) = -\frac{3}{4}x - 18$; if $d(x) = -36$, $x =$

32. $g(x) = \frac{-6x+4}{8}$; if $g(16) =$

Use the following functions to answer questions 33-37.

$$f(x) = 4x - 5 \quad g(x) = -3x + 7 \quad m(x) = \frac{1}{2}x \quad v(x) = 8$$

33. $-3f(x)$

36. $-g(t)$

34. $v(x) \cdot m(x)$

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

35. $f(x) \cdot g(x)$

Use the following functions to answer questions 38-44.

$$f(x) = -8x + 6 \quad g(x) = x^2 + 5x \quad m(x) = 10x - 14 \quad h(x) = 64 \quad d(x) = \frac{-x+5}{4}$$

38. $\frac{1}{4}g(0)$

42. $h(x) + 15$

39. $\frac{d(13)}{g(4)}$

43. $\frac{m(x) + 8x + 2}{6}$

40. $h(x) \cdot f(x)$

44. For what value of x is $f(x) = h(x)$

41. $m(x) \cdot f(x)$

