

**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.  $f(x) = 6$

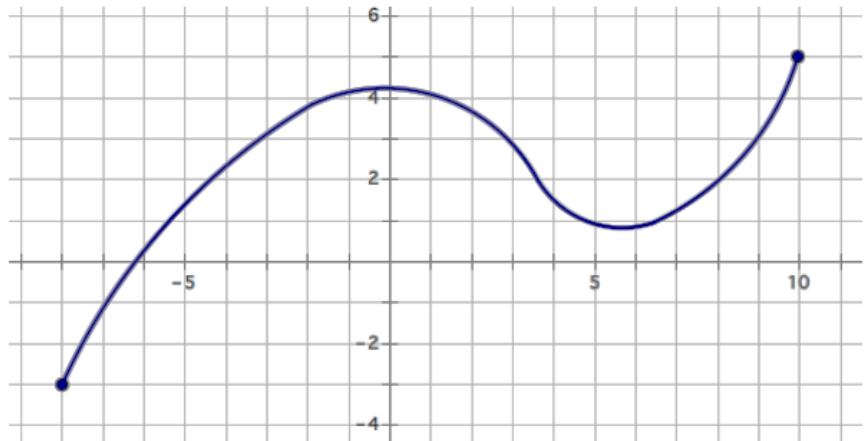
Use the functions below to answer the following questions. Some questions MAY have multiple answers.

19.  $f(-3)$

20.  $f(x)=5$

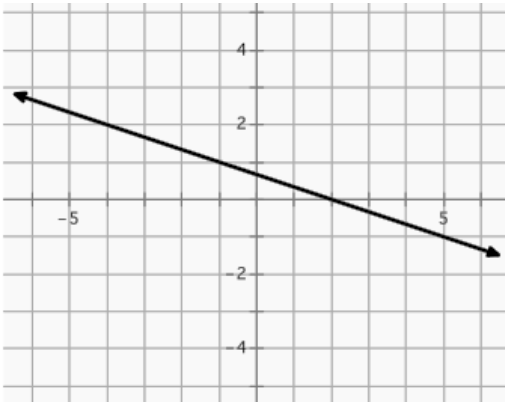
21.  $f(-8)$

22.  $f(x)=3$



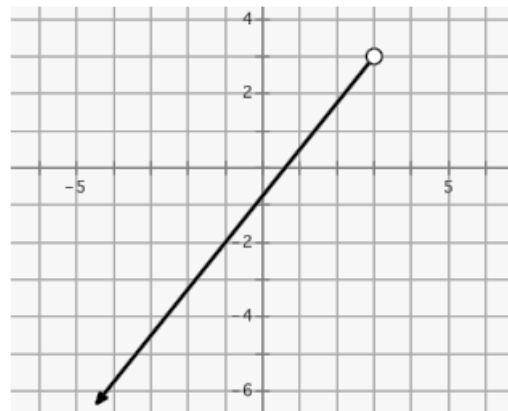
23.  $f(5)$

24.  $f(x)=1$



25.  $f(-1)$

26.  $f(x)=3$

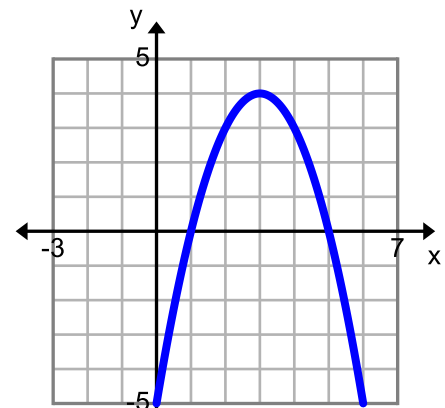


27.  $f(3)$

28.  $f(x)=-5$

29.  $f(1)$

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

