

Evaluating Functions Practice Worksheet

Name _____ Date _____

Evaluate each function.

1. $f(x) = 2x - 5$, when $x=3$

2. $h(x) = 6x + 2$, when $x = 0$

3. $h(x) = x^3 - 4x$, when $x = 2$

4. $f(t) = -2t + 1$, when $t = -7$

5. $f(x) = x^2 - 3x$, find $f(-8)$

6. $g(x) = 3x - 3$, find $g(-6)$

7. $g(x) = 3^{3x-2}$, find $g(1)$

8. $f(x) = -2x^2 + 4$, find $f(4)$

9. $f(x) = 4x - 5$, find $f(x-2)$

10. $g(x) = 5x$, find $g(2x)$

11. $f(x) = -3x - 2$, find $f(x+2)$

12. $f(x) = -x + 3$, find $f(x+3)$

Find x when given the value of $f(x)$. (HINT: $f(x) = y$)

13. $f(x) = 2x - 3$; $f(x) = 11$

14. $g(x) = -3x + 2$; $f(x) = 17$

16. $f(x) = 5x$; $f(x) = -50$

16. $g(x) = 4 - x$; $g(x) = 0$

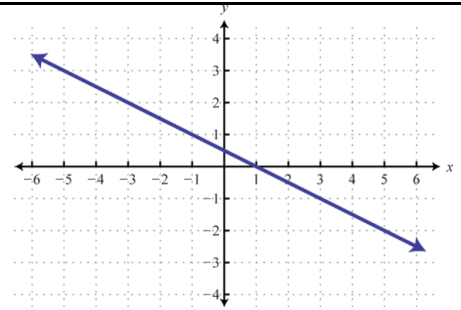
Evaluate the function using the following graph.

17. $f(-1) =$ _____

18. $f(3) =$ _____

19. $f(\text{_____}) = 0$

20. $f(\text{_____}) = 3$

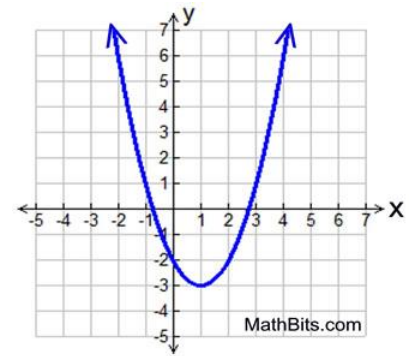


Evaluate the function using the following graph.

21. $f(0) =$ _____

22. $f(3) =$ _____

23. $f(\text{_____}) = -3$



24. Use the table to answer the following:

| | | | | | |
|----------|----|----|---|----|----|
| x | -3 | -1 | 0 | 1 | 3 |
| y | 5 | 7 | 9 | 11 | 13 |

a. Give the domain and range of the relation.

b. Does the relation represent a function? Explain.

c. $f(0) =$ _____

d. $f(3) =$ _____

e. $f(\text{_____}) = 7$

f. $f(\text{_____}) = 5$