Algebra 1
Function Notation Worksheet Alternate

Name _____

For #1-8: Evaluate the following expressions given the functions below:

$g(x) = -3x - 1$ $f(x) = x^2 - 7$ $h(x) = \frac{16}{x}$ $j(x) = 2x - 9$

1. $g(10)$ = _____

2. What is the value of x if $g(x) = 16$ x = _____

3. $f(3)$ = _____

4. What is the value of x if $f(x) = 23$ x = _____

5. $h(-2)$ = _____

6. What is the value of x if $h(x) = -2$ x = _____

7. $j(7)$ = _____

8. $h(a)$ = _____

For #9-12: Translate the following statements into coordinate points:

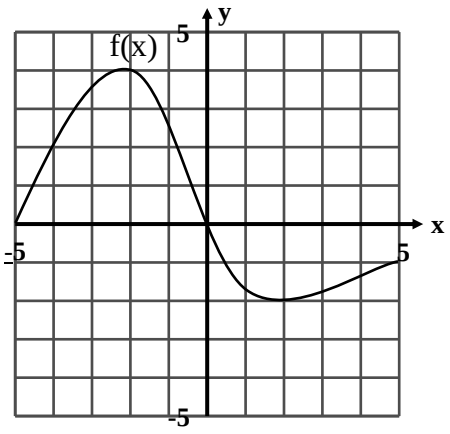
9. $f(-1) = 3$ _____

10. $g(4) = -1$ _____

11. $h(2) = 8$ _____

12. $k(2) = 9$ _____

For #13-18, use the graph to find:



13. $f(2)$ = _____

14. $f(0)$ = _____

15. $f(-4)$ = _____

16. $f(-5)$ = _____

17. What is the value of x when $f(x) = 0$ x = _____

18. Does the graph represent a *function*? Explain why or why not.

19. *Multiple Choice: Circle the best answer.*

The games you can play at the Amusement Park average $5 per game and your ticket was $50. Your cost for the day is $100. Write a function to represent the distance *C* **remaining** atfter you pay *n* games.

A. C = 50 – 5n **B.** C = 5 – 50n **C.** C = 50n + 5 **D.** C = 5n + 50

20. Swine flu is attacking Porkopolis. The function $S(t) = 9t - 4$ determines how many people have swine where *t* = time in days and *S* = the number of people in thousands.

a. Find *S*(1).

b. What does *S*(1) mean?

c. Find t when *S*(*t*) = 32.

d. What does *S*(*t*) = 32 mean?

e. Graph the function. Make a table.