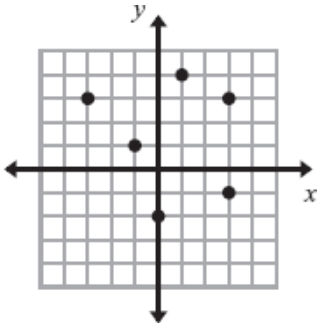
Function Notation and Evaluating Functions Practice WS B

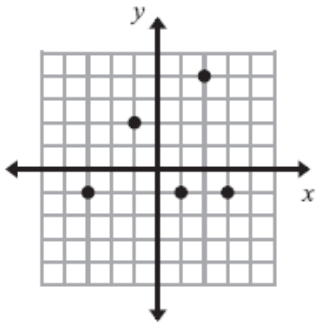
Name: _____ Date: _____

Decide whether the graph represents y as a function of x. If it is a function, give the domain and range.

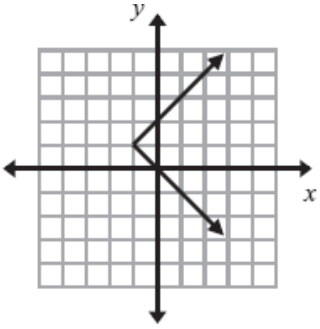
1.



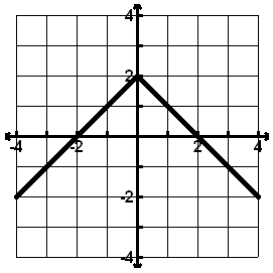
2.



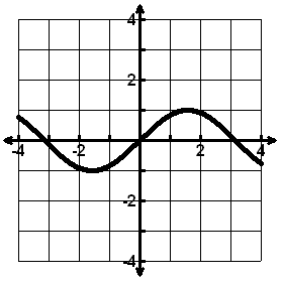
3.



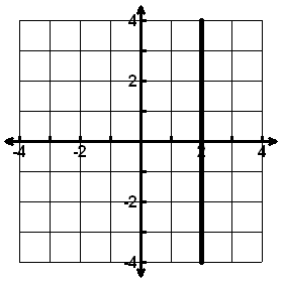
4.



5.



6.



Decide whether the relation is a function.
If it is a function, give the domain and the range.

7.

Input	Output
1	7
	-7
2	8
	-8

8.

Input	Output
3	2
5	4
7	6

9.

Input	Output
0	-6
2	-4
4	-2
6	0

Evaluate the function when $x = 3,\ x = 0,$ and $x = -2$. (3 answers for each problem)

10. $f(x) = 2x - 5$

11. $h(x) = 6x + 2$

12. $g(x) = 2.4x$

13. $f(x) = 2x^2 - 3$

14. $h(x) = x^3 - 4x$

15. $f(x) = (x+2)^2 - 6$

If $f(x) = 2x - 3$, $g(x) = x^3 - 2$, and $h(x) = x^2 - 3x + 5$, find each of the following:

16. f(4) =

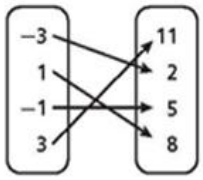
17. h(-3) =

18. g(-2) =

19. **Extension**: h(g(2)) =

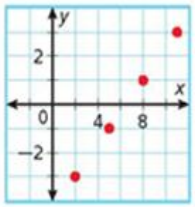
20. Which is NOT a correct way to describe the function $\{(-3, 2), (1, 8), (-1, 5), (3, 11)\}$?

F



H Domain: {−3, 1, −1, 3}
Range: {2, 8, 5, 11}

G



J

x	y
−3	2
−1	5
1	8
3	11

21. Use the table to answer the following:

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

a. Express the relation as ordered pairs.

b. Give the domain and range of the relation.

c. Does the relation represent a function? Explain.