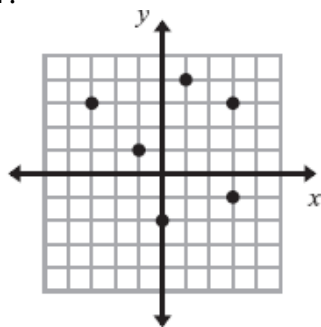


Function Notation and Evaluating Functions Practice Worksheet

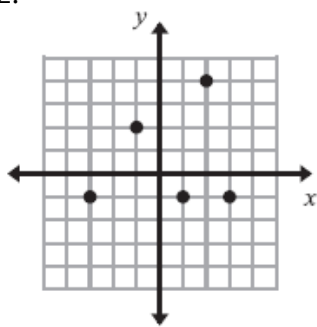
Name _____ Date _____

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

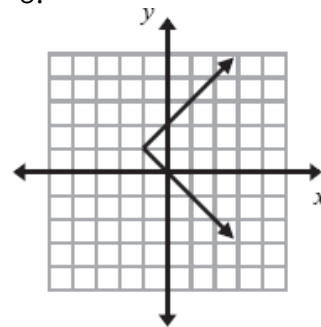
1.



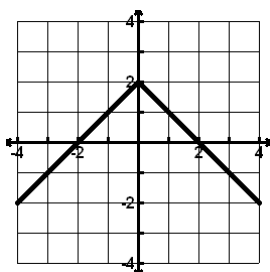
2.



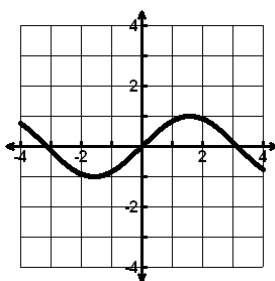
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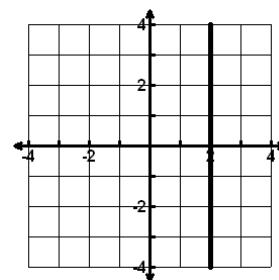
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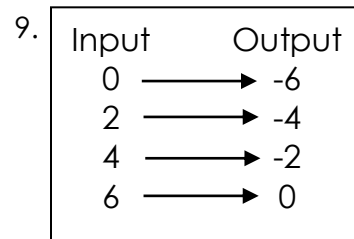
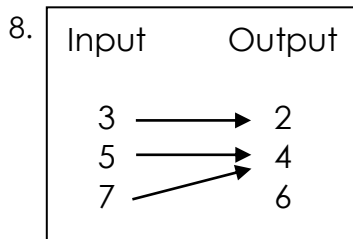
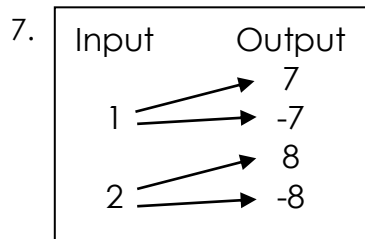
5.



6.



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



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

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

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

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

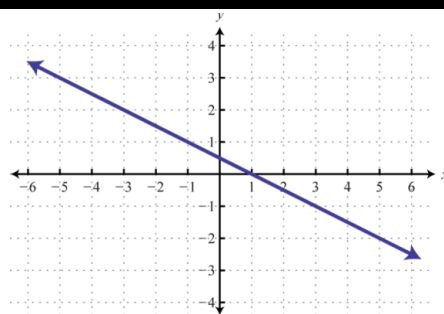
Evaluate the function using the following graph.

13. $f(-1) =$ _____

14. $f(3) =$ _____

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

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



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

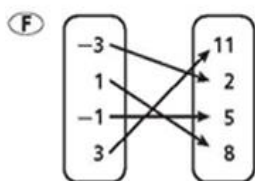
17. $f(4) =$

18. $h(-3) =$

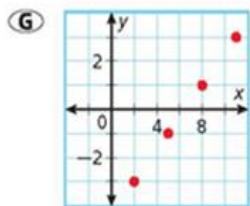
19. $g(-2) =$

20.

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



H Domain: $\{-3, 1, -1, 3\}$
Range: $\{2, 8, 5, 11\}$



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. Give the domain and range of the relation.

Domain:

Range:

b. Does the relation represent a function? Explain.

Find the following:

c. $f(0) = \underline{\hspace{2cm}}$

d. $f(3) = \underline{\hspace{2cm}}$

e. $f(\underline{\hspace{2cm}}) = 7$

f. $f(\underline{\hspace{2cm}}) = 5$