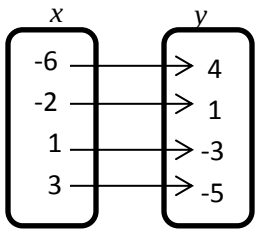
Name: _____ Date: _____ Period: _____ Score: _____

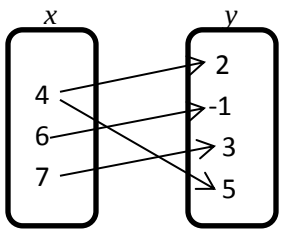
Features of Functions Assignment #1

Determine whether each relation is a function. Answer yes or no and tell why or why not.

1.



2.



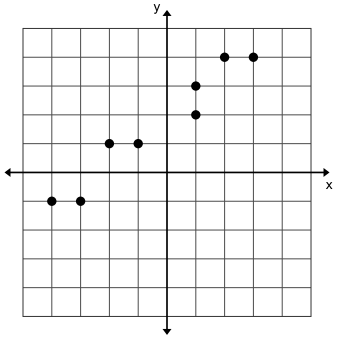
3.

x	*y*
4	-5
-1	-10
0	-9
1	-7
9	1

4.

x	*y*
2	7
5	-3
3	5
-4	-2
5	2

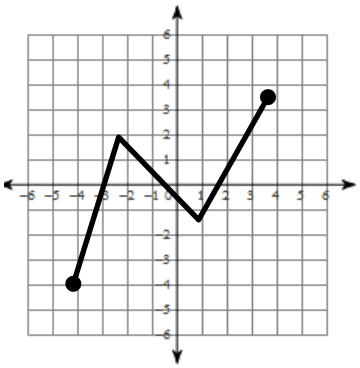
5.



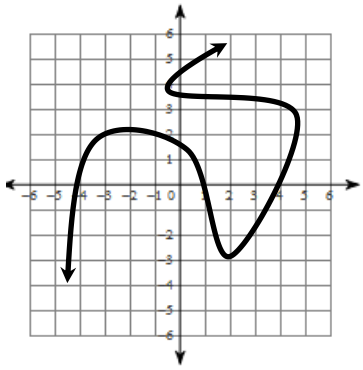
6. {(2, 5), (4, -2), (3, 3), (5, 4), (-2, 5)}

7. {(1, 0), (0, 1), (-1, 2), (-2, 3), (0, 4)}

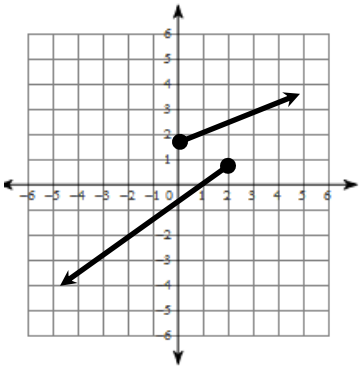
8.



9.



10.



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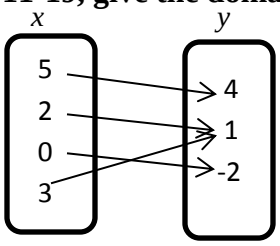
For #11-19, give the domain and range for each relationship. Then tell whether it is a function.

11.



Domain:
Range:
Function (Y/N):

12.

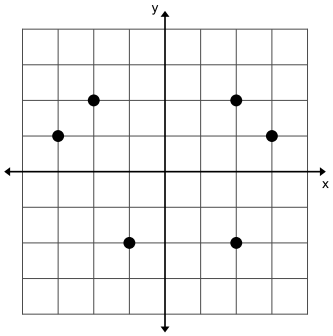
x	*y*
3	7
-1	1
1	0
3	5
7	3

Domain:
Range:
Function (Y/N):

13. {(6,-1), (-4, 2), (5,2), (4,6), (6,5)}

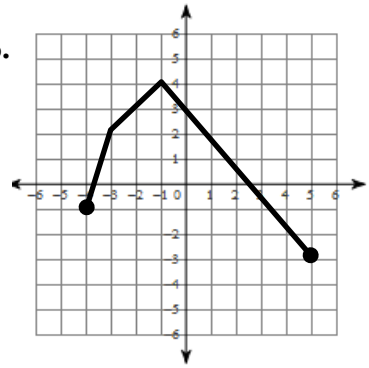
Domain:
Range:
Function (Y/N):

14.



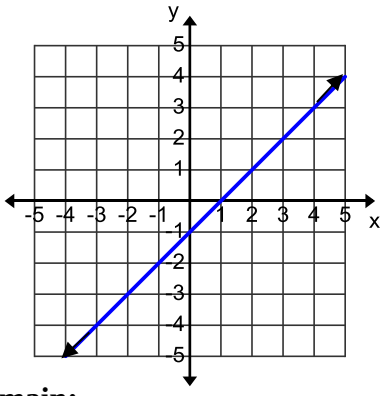
Domain:
Range:
Function (Y/N):

15.



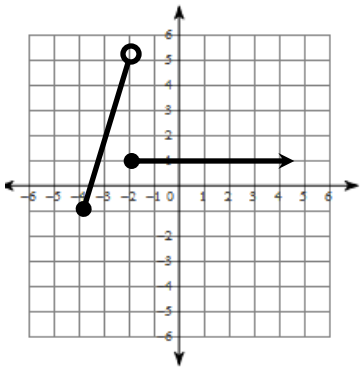
Domain:
Range:
Function (Y/N):

16.



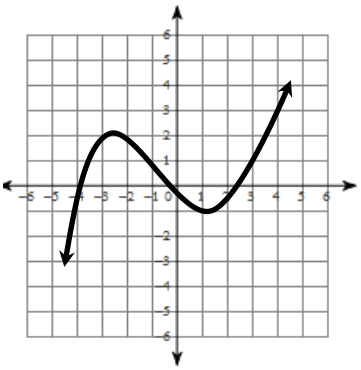
Domain:
Range:
Function (Y/N):

17.



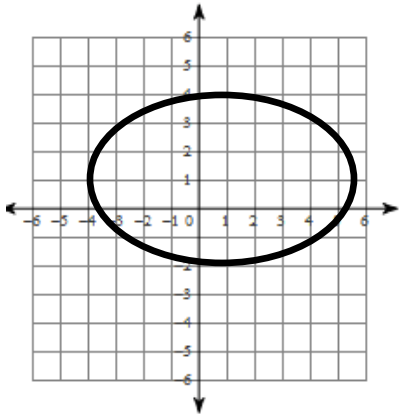
Domain:
Range:
Function (Y/N):

18.



Domain:
Range:
Function (Y/N):

19.



Domain:
Range:
Function (Y/N):

If $f(x) = 3x + 2$ and $g(x) = x^2 - x$, find each value.

20. $f(4)$ **21.** $g(-2)$ **22.** $f(2) + 1$ **23.** $g(2) + f(5)$