Unit 2A Part 1 Review

For #'s 1-10, 4 represent a function and 6 do not. Determine which representation is a function and which is not.

1.

X	-3	0	3	8	-10
Y	6	8	20	4	8

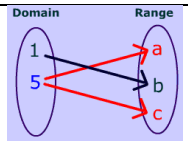
Yes

2.

X	-2	0	-2	7	-8
Y	6	8	20	4	8

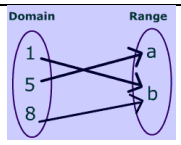
No (x=-2 repeats)

3.



No (5 is used twice)

4.

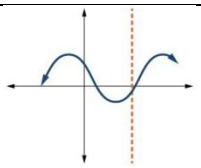


Yes

5. $\{(-2,1),(-2,3),(0,-3),(1,4),(3,1)\}$ No

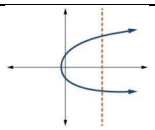
6. $\{(-1,0)\ (0,-3)\ (2,-3)\ (3,0)\ (4,5)\}$ Yes

7.



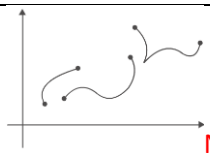
Yes

8.



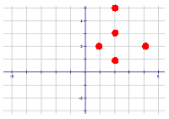
No (Fails the vertical line test)

9.



No (Fails the vertical line test)

10.



No (Fails the vertical line test)

Use the following to do numbers 11-16.

Given: $f(x)=4x-3$; $g(x)=|x-4|$; $h(x)=x^2+2$

Evaluate

11. $g(2)=$ 2

12. $h(5)=$ 27

13. $f(-4)=-19$

14. $f(1)+g(1)=1+3=4$

15. $h(3)-f(2)=11-5=6$

16. *If* $f(x)=-23$, find the value for x $x=-5$

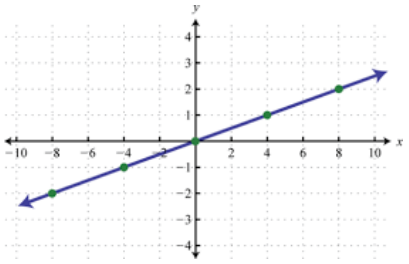
Use the following to do numbers 17-22.

f(x)

x	y
−2	−6
−3	−5
0	1
3	7
7	15
8	18

17. $f(-2)=-6$
18. $g(4)=1$
19. $f0)=1$
20. $g(0)=0$
21. *If* $f(x)=7$; $x=3$
22. *If* $g(x)=2$; $x=8$

g(x)



Refer to the table below of *f(x)* to answer questions 23-26.

Hours studying	Test points
3	27
6	54
9	87
1	8
7	66
10	100
4	33

23. What is $f(6)$? $=54$

24. What does $f(9)=87$ mean in the context of the problem?

Someone that studied 9 hours got a score of 87

25. If $f(x)=66$, what is the value of x? $x=7$

26. What is one conclusion that can be made referrig to this table?

Answers may vary. Ex. The more you study, the higher the test grade.