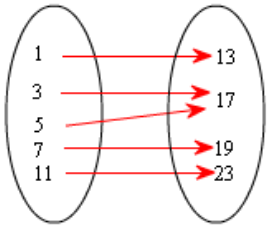
Chapter 7 Quiz **Name:_____Per. _____**

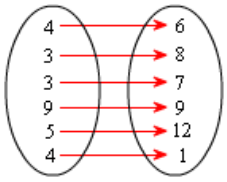
1. Name the set of ordered pairs represented by the mapping diagram shown below.



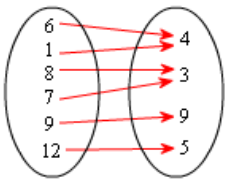
- ○A. {(13,1), (3,17), (17,5), (7,19), (23,11)}
- ○B. {(1,13), (17,3), (5,17), (19,7), (11,23)}
- ○C. {(1,13), (3,17), (5,17), (7,19), (11,23)}
- ○D. {(13,1), (17,3), (17,5), (19,7), (23,11)}

2. Which of the following mapping diagrams represents the relation. {(4,6), (3,8),(3,7),(9,9),(4,1), (5,12)}

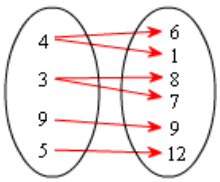
○A.



○B.



○C.



Is the relation a function?

- ○ No
- ○ Yes

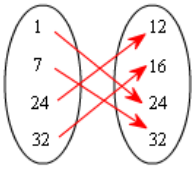
3. Determine whether the following relation represents a function. {(5, – 4),(3, – 3),(5, – 6),(8, – 1)}

- ○ No
- ○ Yes

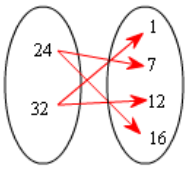
4. Draw a mapping diagram to represent the relaiont shown in the table. Then decide if the relation is a function.

Input	Output
24	1
32	7
24	12
32	16

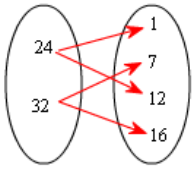
○A.



○B.



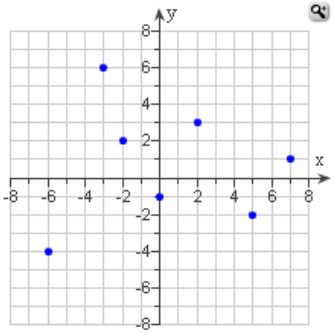
○C.



- ○ No
- ○ Yes

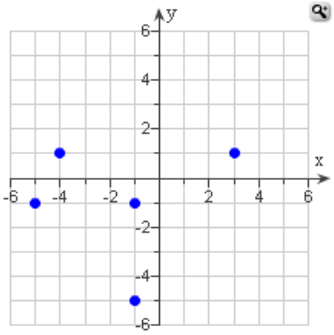
Determine whether the graphs are a function.

5.



- ○ No
- ○ Yes

6.



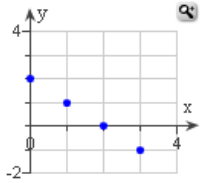
- ○ No
- ○ Yes

7. The value of y is one less than x. Represent this relationship using a table, an equation, and a graph.

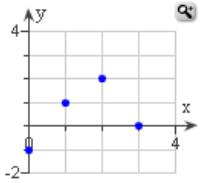
x	y	Ordered Pair (x,y)
0	– 1	(0, – 1)
1		
2		
3		

Equation: y =

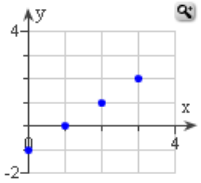
○A.



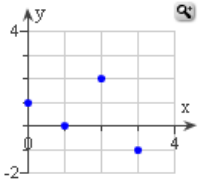
○B.



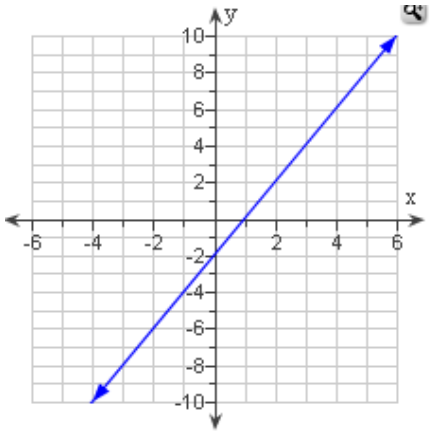
○C.



○D.



8. Use the graph to make a table of values for the function.



Complete the table.

x	y
− 3	
	− 2
1	
	4

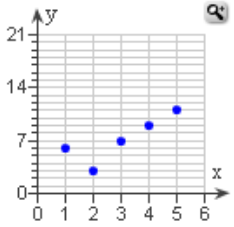
9. Make a table of values for the function y = 3x

x	y
− 5	
− 2	
0	
2	
5	

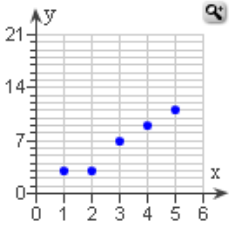
10. Graph the relation. Then determine if it is a linear function. {(1,3), (2,3), (3,7), (4,9), (5,11)}

○ No
○ Yes

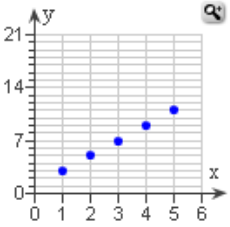
○A.



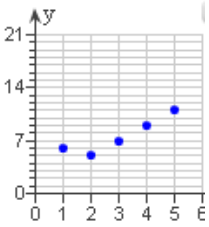
○B.



○C.



○D.



11. The graph of the set of ordered pairs represents a linear function. Find the rate of change.

{(1,4), (2,6),(3,8),(4,10)} Rate of change =

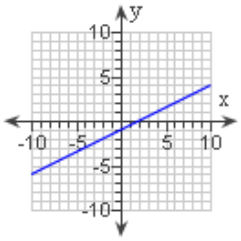
12. Does the relation represented by the table represent a linear function?

Input	Output
1	7
2	9
3	11
4	13
5	15

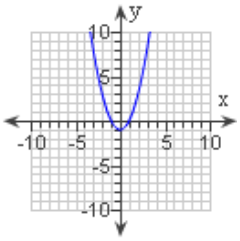
○ No
○ Yes

13. Decide whether each function is linear or nonlinear.

Function I



Function II



Funciont I is : linear / nonlinear

Function II is: linear / nonlinear

14. Justin opens a savings account with $3. He saves $5 each week. The table represents his account balance. Decide whether the talbe represents a linear function or a nonlinear function.

Justin's Savings Account						
Week	0	1	2	3	4	5
Money in Account	3	8	13	18	23	28

linear / nonlinear

15. Decide whether the table represents a linear function or a nonlinear function.

Input	Output
0	7
1	14
2	23
3	34
4	47

linear / nonlinear