

Name _____
Period _____

Functions- F1

Finish this statement:

To define a function, for every input, there is exactly _____

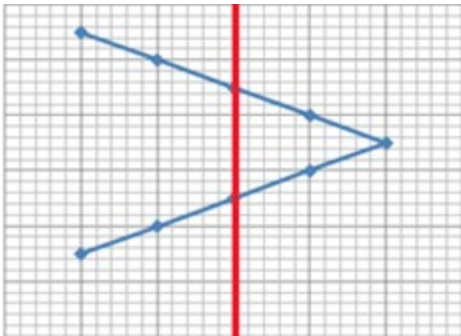
Determine if each is a function. Give your reason if it is not a function.

1.

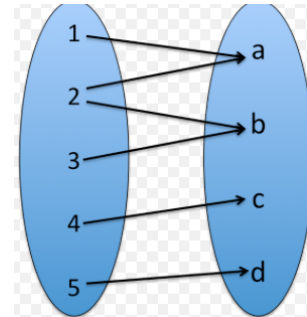
x	-3	-4	3	9
y	1	2	3	4

2. $\{(2, 5) (-2, -10), (5, 5) (10, 20)\}$

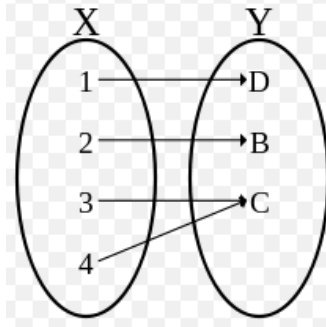
3.



4.



5. **Name the domain (input):**



6. **Name the range (output):**

$\{(6, 3) (8, -12) (-10, 15) (-17, 0)\}$

Use the function rule $f(x) = 4x - 3$. Find each output:

7. $f(0)$ _____

8. $f(-3)$ _____

9. $f(6)$ _____

10. $f(1/4)$ _____

Use the rule to determine the output:

11.

$$-3x$$

x	y
-7	
4	
1/6	

13.

14.

$$-4x + 3$$

x	y
1	
5	
-5	

12.

$$x - 10$$

x	y
-19	
4	
20	

$$1/2 x + 2$$

x	y
4	
0	
-4	

15. **Solve for x:**

$$-3(x + 4) = 2x + 3$$