IS THE RELATION A

A relation is a rule that takes input values and assigns them to output values. A relation is a function if every input value has exactly one output value.

Try it! Determine if each relation is a function. Circle the correct answer.

1.

х	у
-3	0
6	2
6	4
11	-1

Is the relation a function? Yes

No

2.

x	у
-7	7
-2	2
4	4
7	7

Is the relation a function? Yes

No

3.

х	У
3	-2
-1	-2
2	-3
3	-5

Is the relation a function?

No

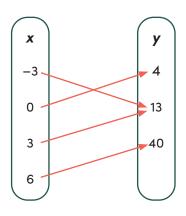
4.

x	У
10	7
-10	7
20	-3
-10	-3

Is the relation a function?

No

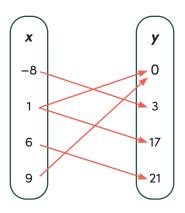
5.



Is the relation a function?

No

6.



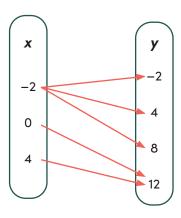
Is the relation a function?

No

IS THE RELATION A FUNCTION?

Keep going! Determine if each relation is a function. Circle the correct answer.

7.

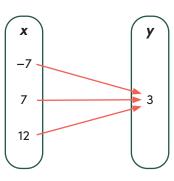


Is the relation a function?

No

No

No



Is the relation a function?

No

9.

Is the relation a function? Yes

10.

Is the relation a function? Yes

No

11.

Is the relation a function? Yes

12.

$$(8, -1), (10, 4), (8, 1), (10, -4)$$

Is the relation a function? Yes

No

Challenge yourself! In each problem below, you are given a relation. Follow the directions to add or remove values to make each relation a function or not a function.

13. Fill in the last row of the table with values that would make the relation **not** a function.

х	У
-3	-5
1	-1
6	3

14. Cross out a row in the table that when removed would make the relation a function.

x	у
-8	1
4	-3
3	-3
4	-8

15. Add a new ordered pair that would make the relation not a function.

16. Cross out an ordered pair that when removed would make the relation a function.