

# FUNCTIONS

What is a function? \_\_\_\_\_

To test whether a relation is a function:

Given Ordered Pairs	If x-values repeat, then it is NOT a function.
Given Graphs	Use the Vertical Line Test. If a vertical line intersects a graph more than once, then it is NOT a function.

Determine whether the following are functions:

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

5.

x	y
3	5
-1	0
0	1
2	2
3	3

6.

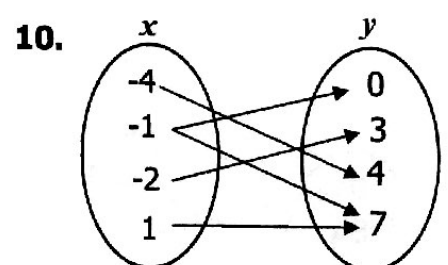
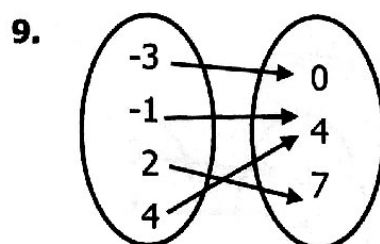
x	y
-4	3
-2	0
1	-1
2	0
5	-2

7.

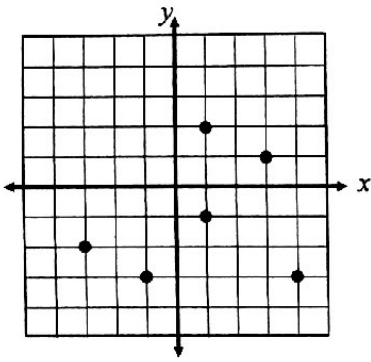
x	y
-5	3
-3	-2
0	1
1	-2
2	3

8.

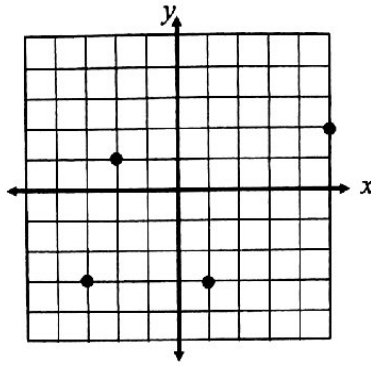
x	y
1	-4
4	-3
-7	6
4	2
-1	0



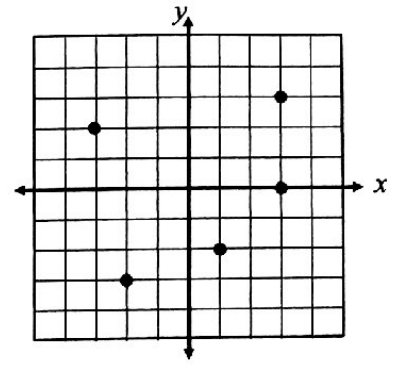
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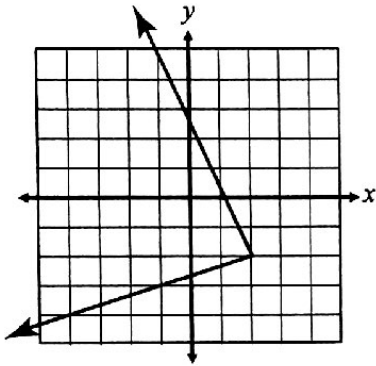
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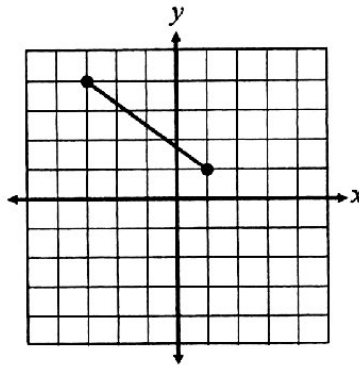
13.



14.



15.



16.

