

# HOMWORK: FUNCTIONS



NAME: \_\_\_\_\_

DAY 1

1. Determine whether the relations shown are functions. Explain your answer. Identify the domain and range.

x	y
1	2
2	3
3	10
4	2

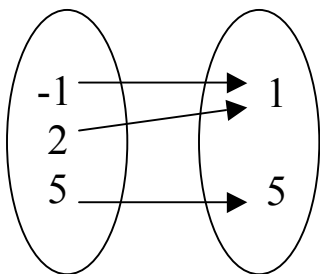
Domain \_\_\_\_\_  
Range \_\_\_\_\_  
Function? \_\_\_\_\_

x	y
1	1
2	2
5	5
5	6

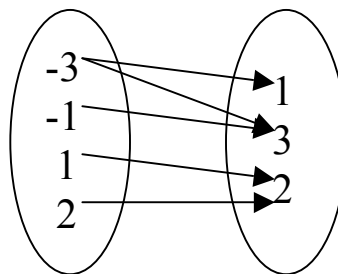
Domain \_\_\_\_\_  
Range \_\_\_\_\_  
Function? \_\_\_\_\_

x	y
0	0
1	1
2	2
3	3

Domain \_\_\_\_\_  
Range \_\_\_\_\_  
Function? \_\_\_\_\_



Domain \_\_\_\_\_  
Range \_\_\_\_\_  
Function? \_\_\_\_\_



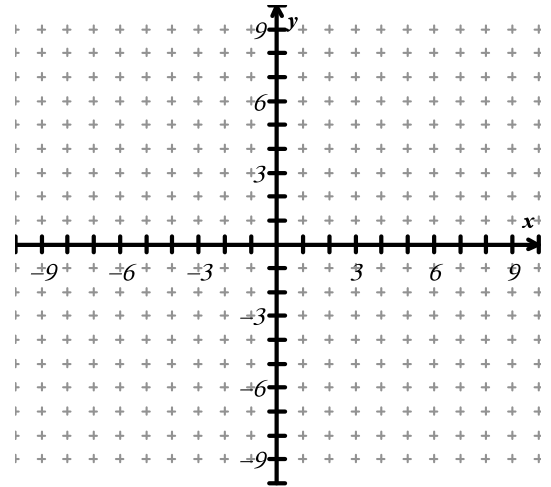
Domain \_\_\_\_\_  
Range \_\_\_\_\_  
Function? \_\_\_\_\_

2. Consider this **function**:  $\{(1, 5), (2, 1), (4, 6)\}$ . Add a point so that the relation is no longer a function. \_\_\_\_\_

3) For the relation:  $\{(2, 0), (0, -3), (5, 3), (5, -2)\}$

a) Create a mapping diagram for the relation.

b) Create a graph of the relation.



b) Is the relation a function? Why or why not?

4. Look at the graph. Is the inverse a function? Then sketch the inverse of the graph.

