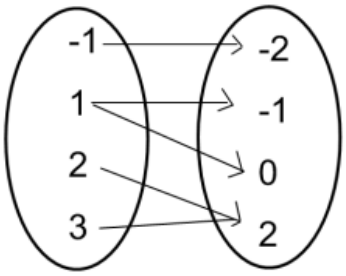
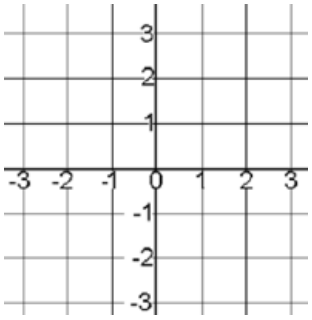
Practice Worksheet: Relations & Functions

Use the given form of each relation to complete the other forms. Then determine if the relation is a function.

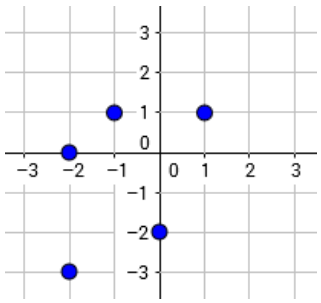
1] Rewrite the relation given in the mapping diagram as a scatterplot.

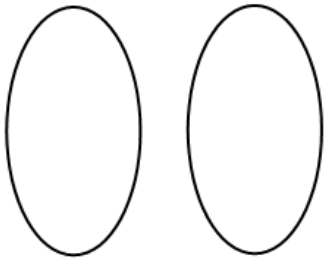




Is the relation also a function?

2] Rewrite the relation given in the scatter plot as a mapping diagram.

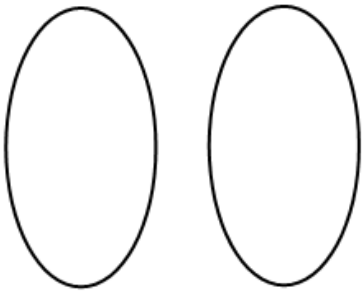




Is the relation also a function?

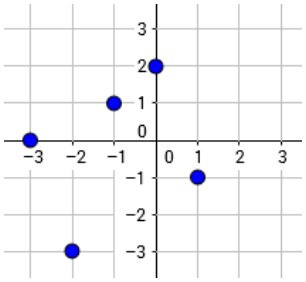
3] Rewrite the relation given in the table as a mapping diagram.

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



Is the relation also a function?

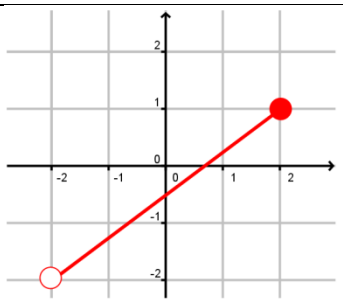
4] Rewrite the relation given in the scatter plot as a **set** of ordered pairs (NOT a table).



Is the relation also a function?

Identify the domain and range, then determine if each graph shows a function or a relation only.

5]

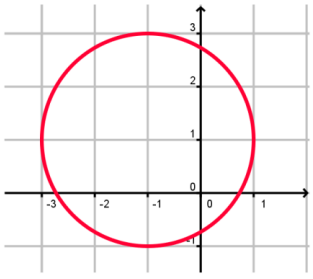


Domain:

Range:

Function?

6]

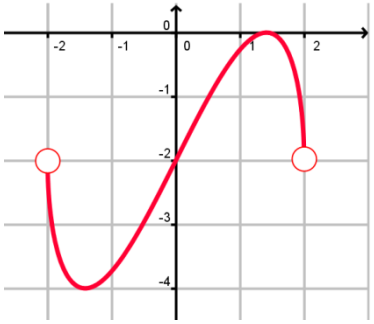


Domain:

Range:

Function?

7]



Domain:

Range:

Function?

Credit: Mrs. Wolfe, Carlisle school, PA
http://carlisleschools.ss13.sharpschool.com/common/pages/UserFile.aspx?fileId=1582601

Identify the domain and range, then evaluate each function for the given value of x.

8] $f = \{(10,7), (-2,4), (5,3), (4,10)\}$ Domain: Range: $f(10) =$	9] Domain: Range: $f(-1) =$	10] Domain: Range: $f(-3) =$
11] Domain: Range: $f(3) =$	12] Domain: Range: $f(0) =$	13] Domain: Range: $f(4) =$
14] Domain: Range: $f(-3) =$	15] Domain: Range: $f(2) =$	16] Domain: Range: $f(-2) =$

x	y
-3	3
-1	1
0	0
1	1