

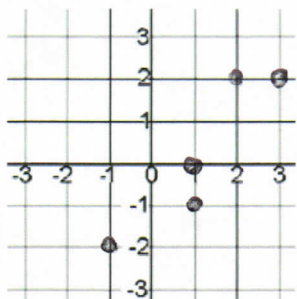
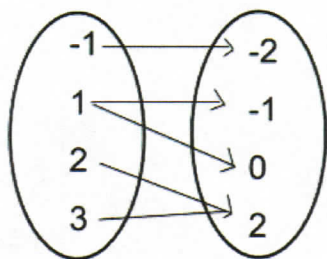
Name: Answer Key Period: 2

First Score:	First attempt due:	Final Score:
	Final corrections due:	

Practice: Relations & Functions

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

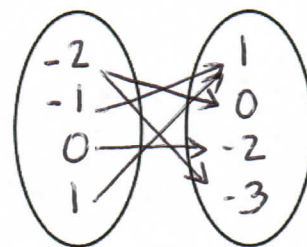
1] Rewrite the relation given in the mapping diagram as a scatterplot.



Is the relation also a function?

no

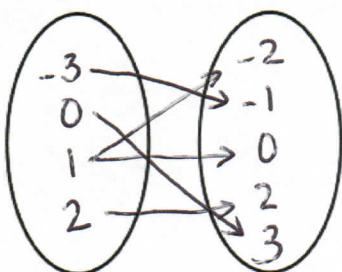
2] Rewrite the relation given in the scatter plot as a mapping diagram.



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?

no

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

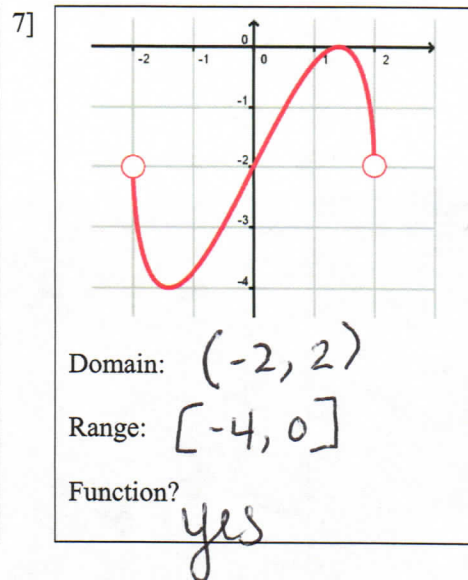
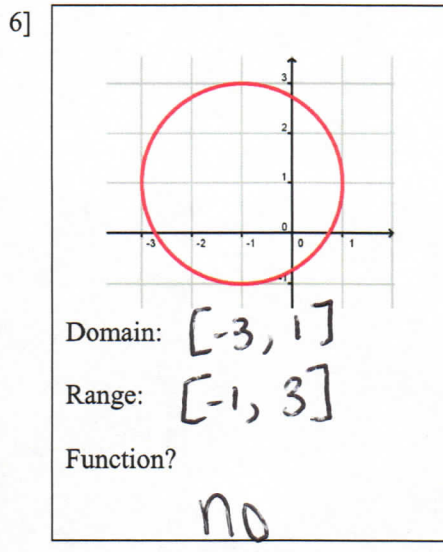
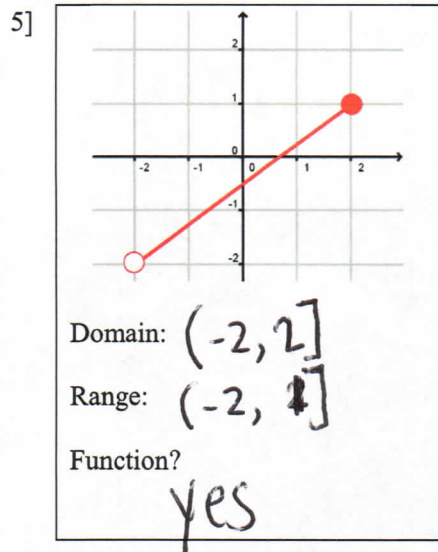


$(-3, 0), (-2, -3)$
 $(-1, 1), (0, 2)$
 $(1, -1)$

Is the relation also a function?

yes

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



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: $\{10, -2, 5, 4\}$

Range: $\{7, 4, 3, 10\}$

$f(10) = 7$

9]

Domain:

$\{-3, -1, 0, 1\}$

Range:

$\{3, 1, 0\}$

$f(-1) =$

1

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

10]

Domain:

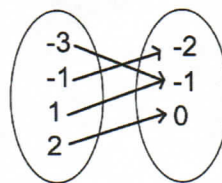
$\{-3, -1, 1, 2\}$

Range:

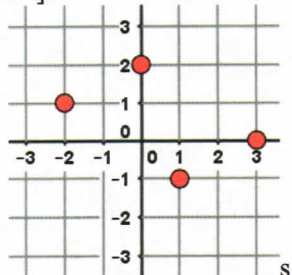
$\{-2, -1, 0\}$

$f(-3) =$

-2



11]



Domain:

$\{-2, 0, 1, 3\}$

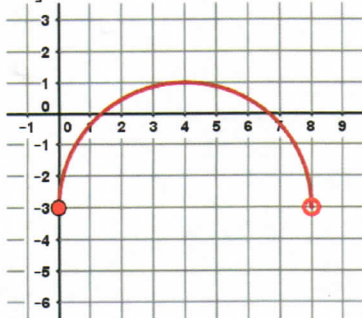
Range:

$\{-1, 0, 1, 2\}$

$f(3) =$

0

12]



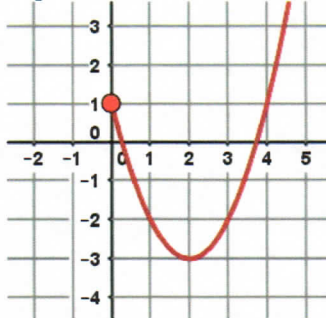
Domain: $[0, 8)$

Range: $[-3, 1]$

$f(0) =$

-3

13]



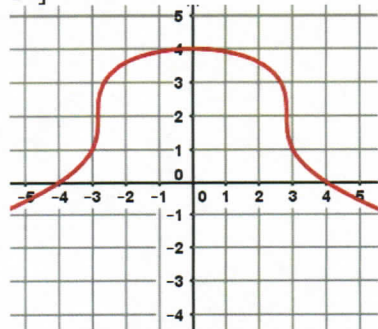
Domain: $[0, \infty)$

Range: $[-3, \infty)$

$f(4) =$

1

14]



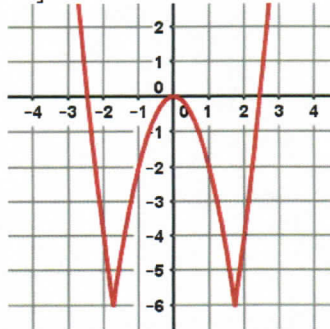
Domain: $(-\infty, \infty)$

Range: $(-\infty, 4]$

$f(-3) =$

1

15]



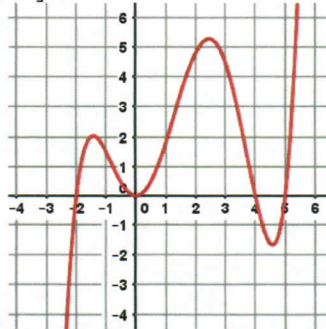
Domain: $(-\infty, \infty)$

Range: $[-6, \infty)$

$f(2) =$

-4

16]



Domain: $(-\infty, \infty)$

Range: $(-\infty, \infty)$

$f(-2) =$

0