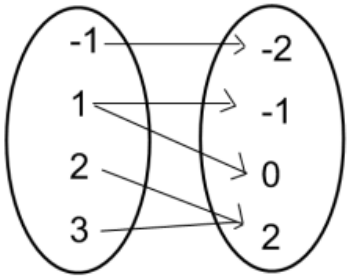
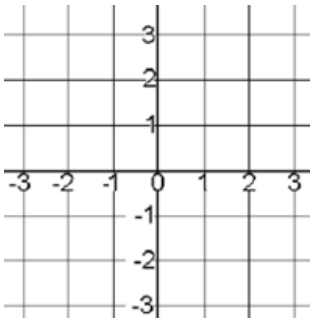
Name: Period: Date:

Practice Worksheet: Relations & Functions

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

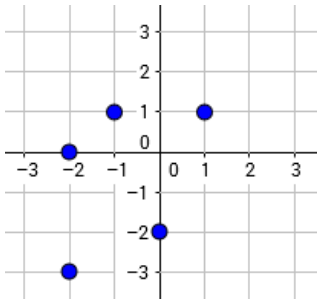
1] Rewrite the relation given in the mapping diagram as a scatterplot.

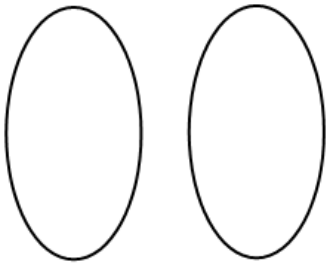




Is the relation also a function?

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

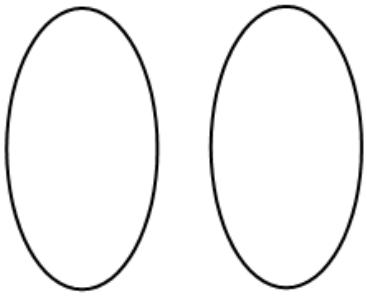




Is the relation also a function?

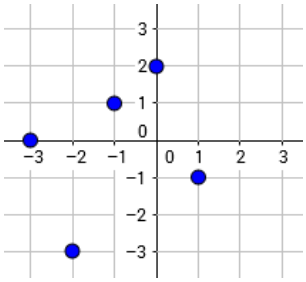
3] Rewrite the relation given in the table as a mapping diagram.

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



Is the relation also a function?

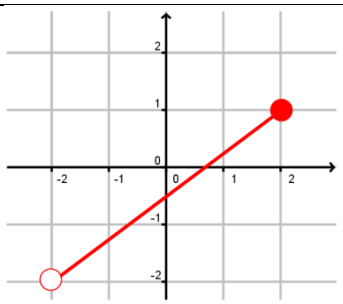
4] Rewrite the relation given in the scatter plot as a set of ordered pairs.



Is the relation also a function?

Determine if each graph shows a function or a relation only. Then identify the domain and range.

5]

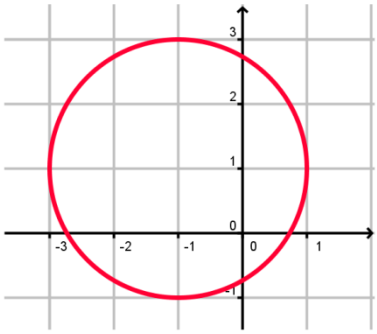


Domain:

Range:

Function?

6]

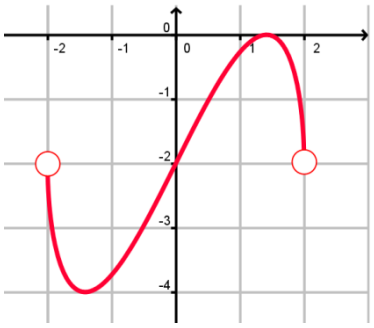


Domain:

Range:

Function?

7]



Domain:

Range:

Function?

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:

Find $f(5)$.

9]

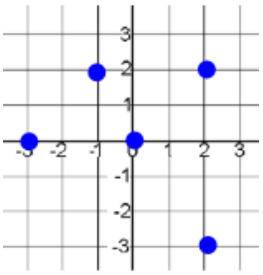
x	y
-3	3
-1	1
0	0
1	1

Domain:

Range:

Find $f(1)$.

10]

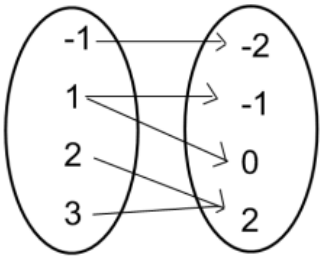


Domain:

Range:

Find $f(-3)$.

11]

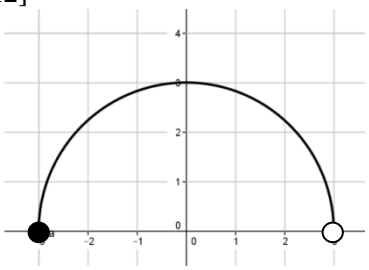


Domain:

Range:

Find $f(3)$.

12]

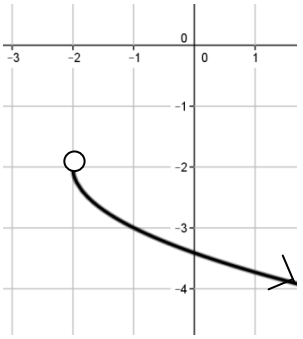


Domain:

Range:

Find $f(0)$.

13]



Domain:

Range:

Find $f(-1)$.

Evaluate each function for the given value of x. Show your work.

14] $f(x) = 3\sqrt{x} - 5;\ f(9)$

15] $f(x) = 4x^2 + x - 2;\ f(-2)$

16] $f(x) = 3 - 3x;\ f\left(\frac{1}{6}\right)$

17] $f(x) = |x + 2|;\ f(-4)$

18] $f(x) = \frac{2}{x-2};\ f(6)$

19] $f(x) = \frac{2}{3}x - 5;\ f\left(-\frac{9}{2}\right)$