

# Math Worksheets

## Relations and Functions

✂ State the domain and range of each relation. Then determine whether each relation is a function.

1)

Function:

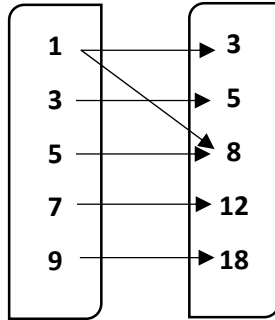
.....

Domain:

.....

Range:

.....



2)

Function:

.....

Domain:

.....

Range:

.....

$x$	$y$
3	4
0	1
-2	-3
6	-3
8	2

3)

Function:

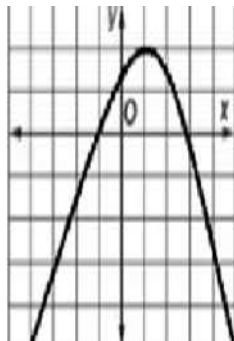
.....

Domain:

.....

Range:

.....



4)  $\{(1, -2), (4, -1), (0, 5), (4, 0), (3, 8)\}$

Function:

.....

Domain:

.....

Range:

.....

5)

Function:

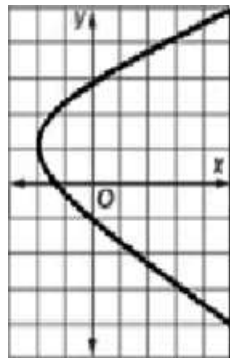
.....

Domain:

.....

Range:

.....



6)

Function:

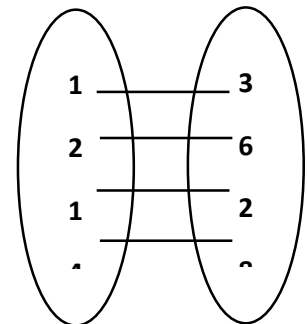
.....

Domain:

.....

Range:

.....



# Answers of Worksheets

## Relation and Functions

- 1) No,  $D_f = \{1, 3, 5, 7, 9\}$ ,  $R_f = \{3, 5, 8, 12, 18\}$
- 2) Yes,  $D_f = \{3, 0, -2, 6, 8\}$ ,  $R_f = \{4, 1, -3, 2\}$
- 3) Yes,  $D_f = (-\infty, \infty)$ ,  $R_f = \{2, -\infty\}$
- 4) No,  $D_f = \{1, 4, 0, 3\}$ ,  $R_f = \{-2, -1, 5, 0, 8\}$
- 5) No,  $D_f = [-2, \infty)$ ,  $R_f = (-\infty, \infty)$
- 6) No,  $D_f = \{1, 2, 4\}$ ,  $R_f = \{3, 6, 2, 8\}$