# **4.1 – Relations, Domain and Range**

Relation:

Relations can be expressed in 4 different ways:



## 1. Represent the relation shown

##  in the graph as:

a) a set of ordered pairs

b) a table c) a mapping

Domain:

Range:

Function:

State the domain and range. Then determine whether or not the relation is a function.

2.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Function?\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Function?\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Express the relation shown as ordered pairs. Then state

 the domain and range. Is it a function?

-4

 Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the domain and range from the graph.

4.



 Domain:\_\_\_\_\_\_\_\_\_\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_

5. 6.





Domain:\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_

Range:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_

6. 7.





Domain: \_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_

Range:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_

Find the domain and range from the graph.

4.



 Domain:\_\_\_\_\_\_\_\_\_\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_

5. 6.





Domain:\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_

Range:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_

6. 7.





Domain: \_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_

Range:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_