

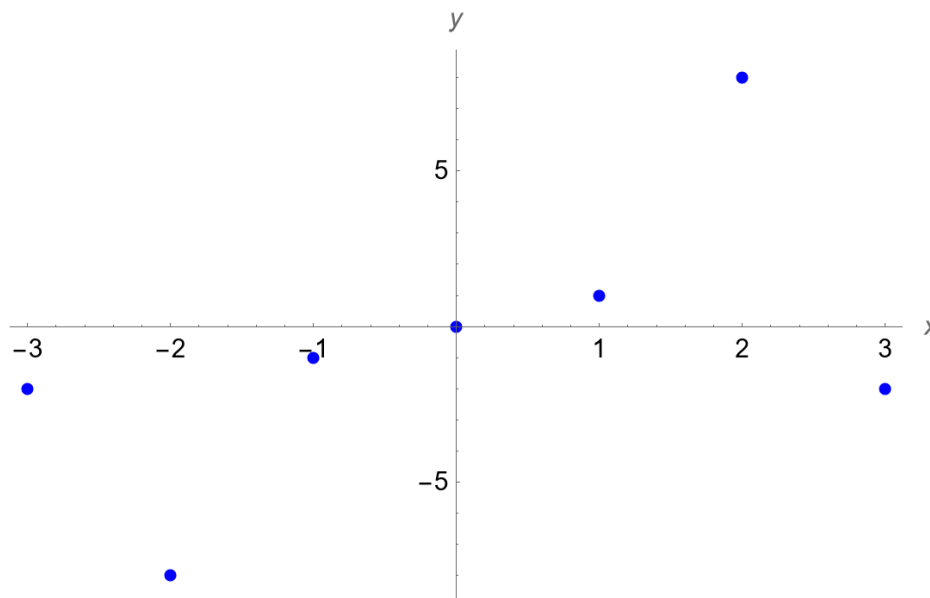
Exercise 2

For the following exercises, (a) determine the domain and the range of each relation, and (b) state whether the relation is a function.

x	y	x	y
-3	-2	1	1
-2	-8	2	8
-1	-1	3	-2
0	0		

Solution

Below is a plot of the data in this table.



$$\text{Domain: } \{-3, -2, -1, 0, 1, 2, 3\}$$

$$\text{Range: } \{-8, -2, -1, 0, 1, 8\}$$

The relation is a function because every value of x corresponds with only one value of y ; that is, it satisfies the vertical line test.