

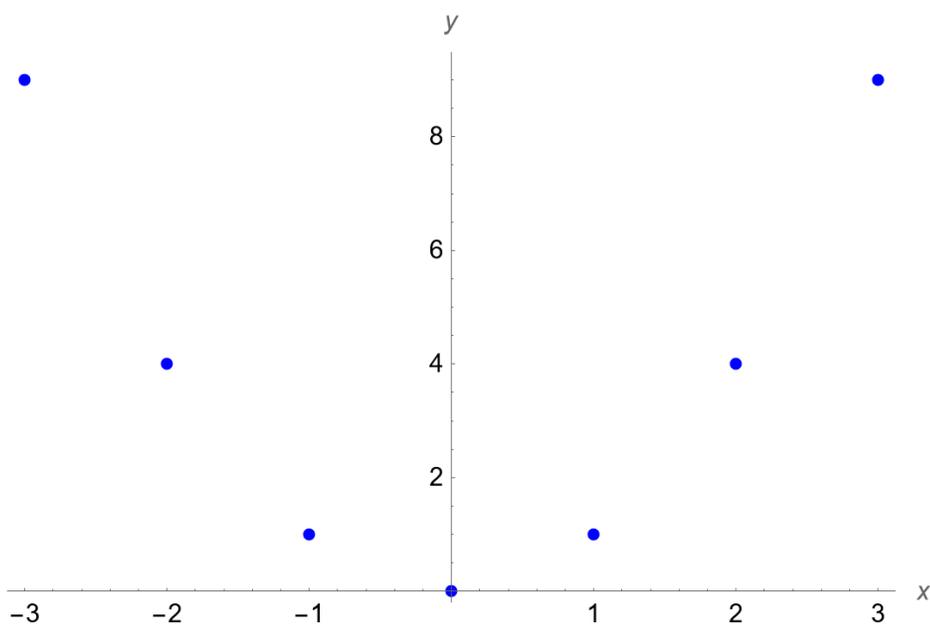
Exercise 1

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	9	1	1
-2	4	2	4
-1	1	3	9
0	0		

Solution

Below is a plot of the data in this table.



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

Range: $\{0, 1, 4, 9\}$

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.