

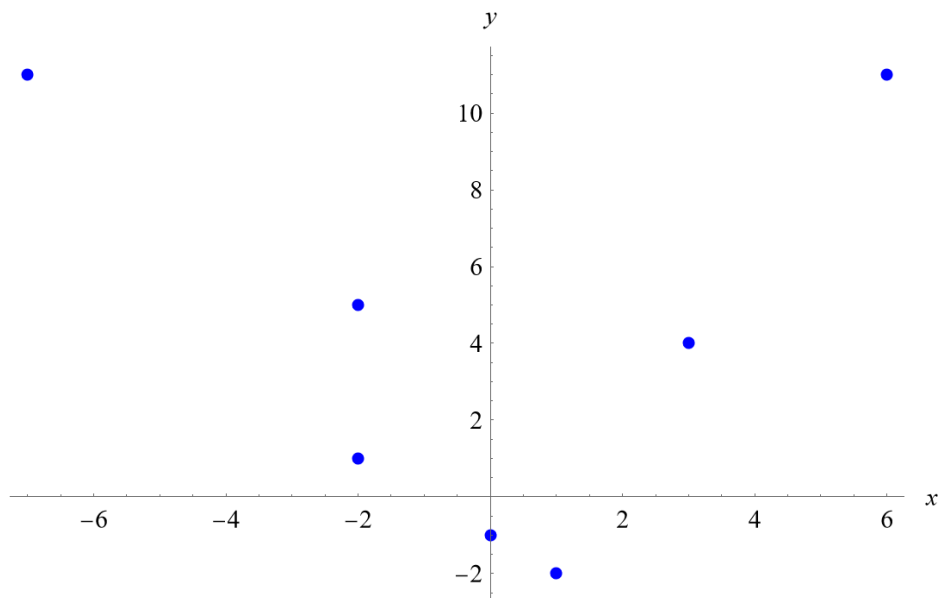
Exercise 6

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
-7	11	1	-2
-2	5	3	4
-2	1	6	11
0	-1		

Solution

Below is a plot of the data in this table.



$$\text{Domain: } \{-7, -2, 0, 1, 3, 6\}$$

$$\text{Range: } \{-2, -1, 1, 4, 5, 11\}$$

The relation is not a function because there are two values of y for $x = -2$; that is, it fails the vertical line test.