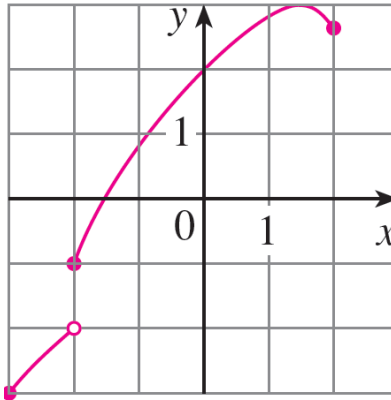# Exercise 9

Determine whether the curve is the graph of a function of x. If it is, state the domain and range of the function.

Solution

This curve is a function because it has only one value for any value of x. In other words, it passes the vertical line test. Its domain is $\{x \mid -3 \le x \le 2\}$, and its range is $\{y \mid -3 \le y < -2 \text{ or } -1 \le y \le 3\}$.