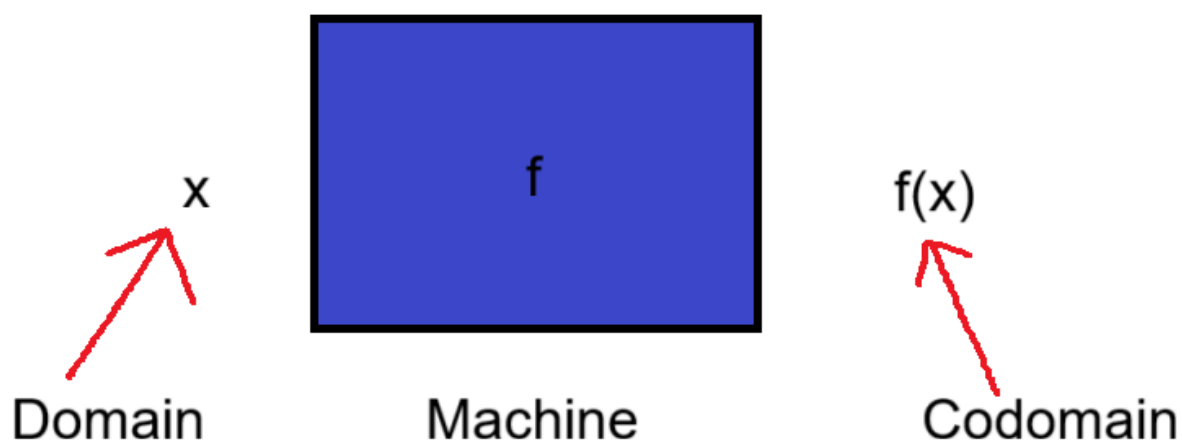


- Function
 - Equation
 - Table

Function

Function is machine and more likely the algorithms concept in programming , Function is set of rules to give output from given input.

formally : $f:X \rightarrow Y$



Ways to representation of functions :

- Equation
- Table
- Word
- Graph

Equation

There is two ways of equation representation :

1. Implicit form
2. Explicit form

Equation

1- in implicit form:

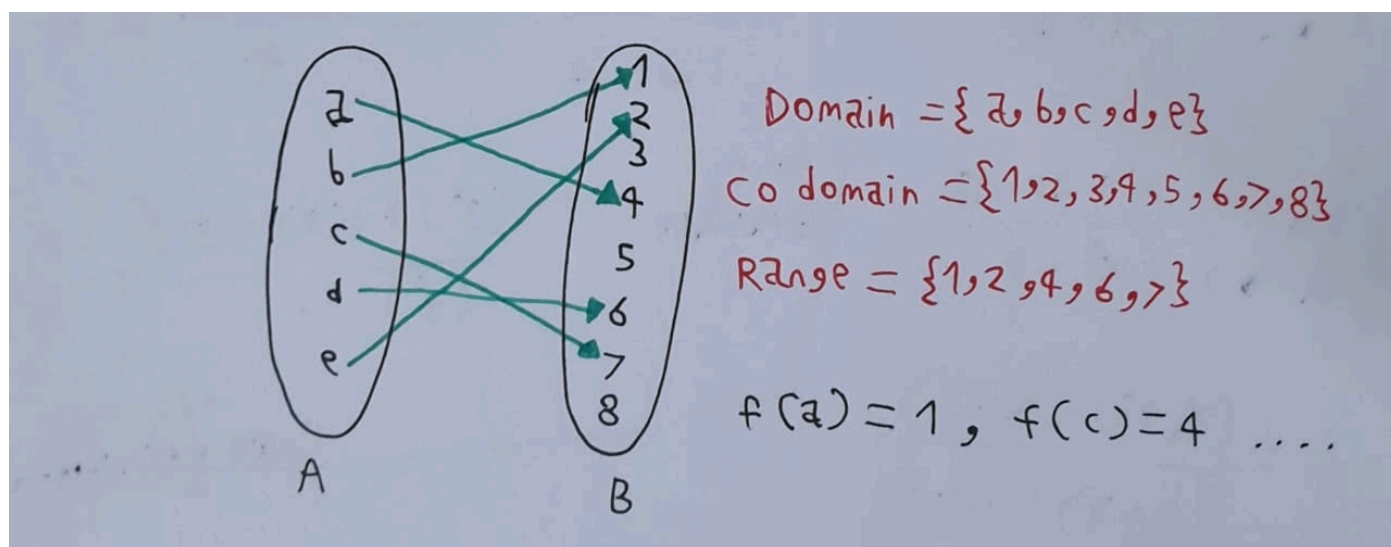
$$x^2 + 2y = 1$$

2- in explicit form:

$$y = \frac{1}{2} (1 - x^2)$$

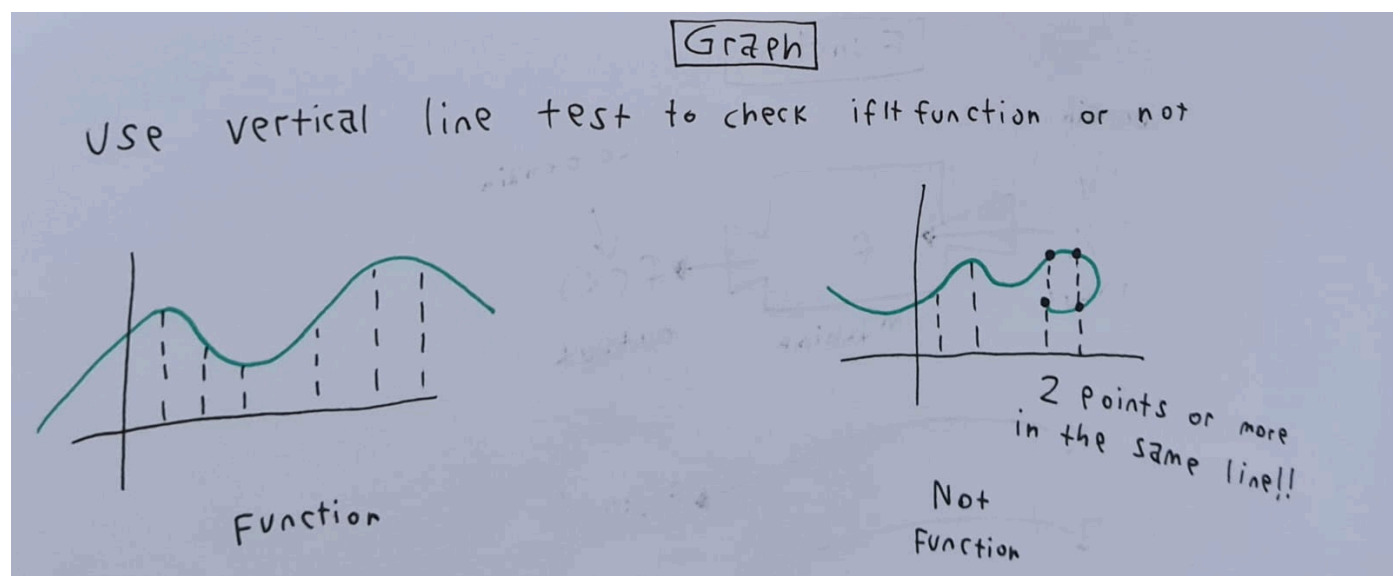
Table

The most famous way to represents a function is the table



Note : It's cannot be variable in domain have more than one equal , But It's correct thing for codomains

Example : Any person in the life have one mother but not more , But mothers maybe have more than one child.



Use vertical lines test to check it's function or not.

If there is 2 points or more in same line it's not a function.