

**Source:**

## 1 | What is a function?

A function  $f : D \rightarrow C$  is a unary operation that takes every element in the domain  $D$  to exactly one element in the codomain  $C$ .

$f(x) = x^2$  is a function over the domain of reals.

## 2 | A 1:1 function or bijection

A 1:1 function is a function  $f$  for which there exists a function  $g$