Source:

1 | What is a function?

A function $f: D \to C$ 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.

$2 \mid$ A 1:1 function or injective function

A 1:1 function is a function f for which there exists a function g such that g(f(x)) = x for all $x \in D$. $f(x) = x^2$ is not a 1:1 function, because *

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