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 | A 1:1 function or injective function

A 1:1 function takes at most one element in the domain to any element in the codomain. A bijective function is a function f for which there exists a function f such that f (f(f(f)) = f for all f (f).

 $f(x) = x^2$ is not a 1:1 function, because both $-1^2 = 1$ and $1^2 = 1$.

3 | What is an inverse function

An inverse function $g:C\to D$ is a function such that $g(f(x))=g\circ f=x$

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