15/1/25 Function has three categoriesa) One to one / into / injective. The definition states for any function f, A to B will be I to I function or injective function when f(a) = f(b) $\Rightarrow a = b$ where $a, b \in A$ (2) Onto / surjective function. A function f: A >B will be surjective if f(A) = B [all elements]

In appeal to all elements] In surjective function co-domain and range coinsides: If any function follows both surjective I injective property then the function will be called bijective Q. Defermine whe then the function for or not.

That f(x1) = f(x2)

 $\Rightarrow \chi_1 + 1 = \chi_2 + 1$. The function is injective from IR 31A os. If $f(x) = x^2$ from the set of integers to set of integer (2021) => since f is a square function, therefore, It maps any integer nuce, the -ve integer set, in range are not mapped with other integers through this function. !... It is not onto. Inverse of a function! let us consider fi ADB such that for every element of A there will for every element of A them.

be an unique image in B such

that of f(A) = B. then the inverse

function will map f'(B) = A

one to one x

on to v

of A them

such

one to one x

on to v

of A them

one to one x

one to one x

on to v find the inverse of the function of theme exist any The function have defined from the

set of integues such that, in the range set fle) = y = x+1

the range, is x in domain.

From the theory of inverse function,

f-1(y) = y-1