## Ch 6 Definitions (important)

Monday, 3 March 2025 2:25 PM

6.1 Injective, surjective and bijective functions

Bijenthe Trijective: At most one input 
$$x \in X$$
 s.t.  $f(x) = y$ , for  $y \in Y$ .

Surjective: At least one output  $x \in X$  s.t.  $f(x) = y$  for every  $y \in Y$ .

6.5 I somorphism

· Immorphism bother V and W is any linear bijective map 
$$F\colon V\to W$$
.   
  $\colon V\cong V$  (  $\dim(V)=\dim(V)$ )

the identity transformation 
$$id_{iR}^{n}: R^{n} \rightarrow iR^{n}$$
,  $id_{iR}^{n}(\bar{x}')=\bar{x}^{3}$ 

6.13 Invorse Martine, Geometric Definition.

6.14 Inverse Martin, Myebanic Petinitia

· Inverse of A sortisfy
$$AA^{-1} = A^{-1}A = I_n$$