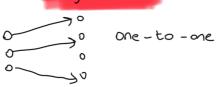
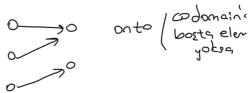
functions

injective



Surjective



to show that fis

injective

show that if f(x) = f(y) for arbitrary $x, y \in A$ with $x \neq y$ then x = y.

not injective

find particular elements $x,y \in A$ such that $x \neq y$ and f(x) = f(y)

Surjective

consider an arbitrary element you and find an element x eff such that f(x)=y

not surjective

find a particular y EB such that f(x) ±y for all x EA

bijective

= injective + surjective