Let f: A->B. If there are functions g:B-> A and h:B-> A sit g(f(a)) = a for every a ∈ A and f(h(b))=b for every b in B then f is bijective and g= h= f-1 first show that f is surjective. for every b & B f(h(b)) = b thus t is surjective injective need to show that there is only one value let a, az be st f(a,) = f(az) = b then $g(b) = g(f(a_i)) = a_i$ so $a_i = a_2$ $=g(f(\alpha y))=\alpha z$ thus f is bijective. f(g(f(a))) = f(a)we have g(f(a)) = aSo g = f' f(h(b)) = b and h(f(h(b))) = h(b)50 h= f-1= 9