If A and B are finite show that the number of functions fix- B is finite. let N be the size of A, M the size of B then for a E A there are M assignments to the elements be B. Since we have N elements the total number of functions is NM another way since A is finite there is some n sit there is a bijection f: >1, .., ng -> A that means we can order the elements as a. E. it f(i)=a; then take be B" and let g: A-> B be the function sit go(a;) = b; since B" is a finite cartesian product en a finite set the moran 29636 EBN is Rivile.