Prove that every manifold is regular and hence metrizable. Where do you use the Hausdorf condition? Let X be an m-marifold, XEX, Baclosed set disjoint from X. Let U be a neighborhood of x that is homeomorphic to ansubset of P. Let f be the home omorphism. Let y=f(x). If BNU= then let ) be a neighborhood of Y sit Dcf(U), then f'(D) and f'(D) satis fies our require ments. otherwise BNV is closed in 1) as a subspace thus f(BnU) is closed in f(U). Let W, D be disjoint open sets of f(U) containing y and f(BNU) then f'(w) and f'(v) are the sets we are looking for metrizable then by urpsohn it is metrizable