Show that a subspace of a Hausdorf space is Hausdorf. Let(Xix)be Hausdorf. Let Y be a subspace with the subspace topology Ty, let a, b be distinct points in Y then we have U, DETX sit aell, bev, Unb = 1 acup=uny, bey=vny and clearly (uyn'y) c(un))=1