Let ACX. If d is a metric for the topology of X show that d/AXA is a metric for the supspace topology on A 1. for x,y e A d(x,y) ≥0, and d(x,y)=0 X=Y. This is true for X,Y ∈ X and thes for x,y eA 2. d(x,y)=d(y,x) since x,y ∈ X 3. let X, Y, Z & A then X, Y, Z & X thus $d(x,z) \leq d(x,y) + d(y,z)$