A) G is connected

B) G is acyclic a tre (VI= (El+1 imply the other ary two of A,B,C (B+C > A) Let G be an acyclic graph with IVI=1E/+1. Let G, G2, ... Gx be the connected components of G. Each graph G; must be a tree since it is connected and acyclic. So (because we already proved A)+B)=>C)) |V| = |V(G)|+ (V(G2)|+ ... + |V(GE)| =(|E(G₁)|+1)+(|E(G₁)|+1) + -- (|E(G₁)|+1) = |E(6)|+K. Thus K=1 and A) holds.