n+r-c=1

5+4-8=1 Prove= N+r-e=1 for all lines. Base: _ P N=3, r-1, e=3 Assume for nine, nire=1 Add Region= 11, e+1 intr-e=1 Add Edge = et1, N+1 N+r-e=1 Add node = N+1, 1+1, e+2 OR N+1 =+1 N+Y-C=1

Q.F.D.