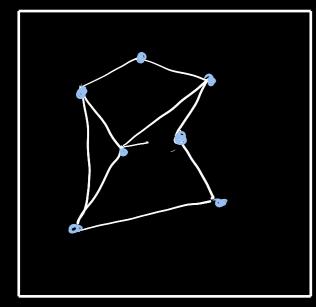
V-> points

E > Edgez



faces also include the outer region.

Connected

#. Spanning Tree and

any Tree inside a graph which touches all the Vertices is celled a spanning tree. (That is no Cycles) { we weigh Edges such to not wisit the wisited, again

Dual quaphs

Connecting regions (here regions with common Edge aue considered connected. Thus, we have named It as Duel Greeph.

Outer region is treated, some where in Infinity.

Dual bruagh is so much connected to original graph.

Dual quaph always have thick spanning tree too. In any true [E+1=V] (Edges not part of Spanning tree of original graph)

As one Starts from a point and then Keeps adding Edges, So +1.

(No. of Randolph's Edges) + 1 = V

(NO. of Mosttimer's Edges) + 1 = F

} E+2=V+F} -> Euler formule derivation from graphe.