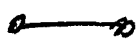
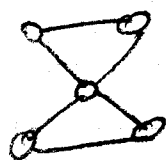


41]

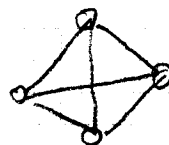
a)



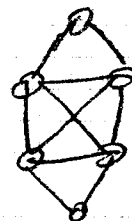
b)



c)



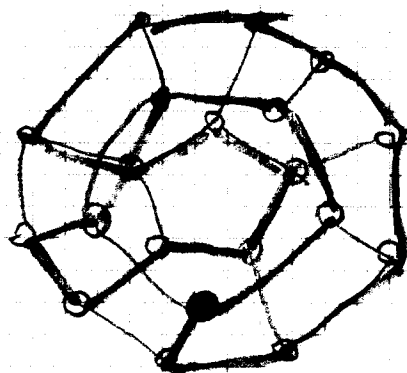
d)



42]

a) has no hamiltonian path

b)

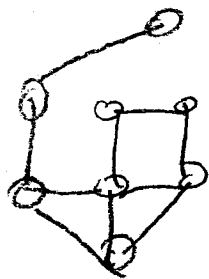


43]

If the graph has Eulerian cycle all vertices have even degree.

If the graph has Eulerian path but not Eulerian cycle, add an edge between start and end vertex (increasing their degree by one). There is an Eulerian cycle, thus all degrees in new graph are even. Thus in old graph exactly two vertices of odd degree.

44]



45]

☒ No - by problem 43 no Euclidean path
(consider all intersections as vertices.)



also on far second graph,
this yes.