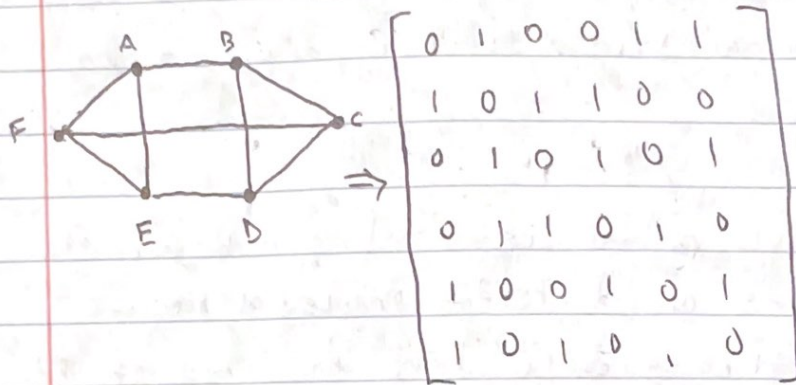
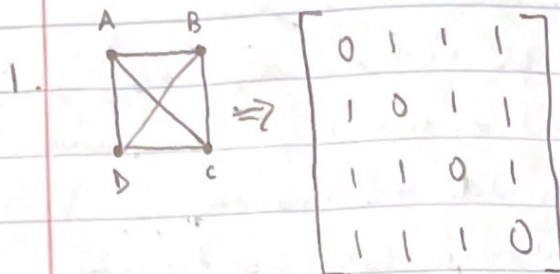
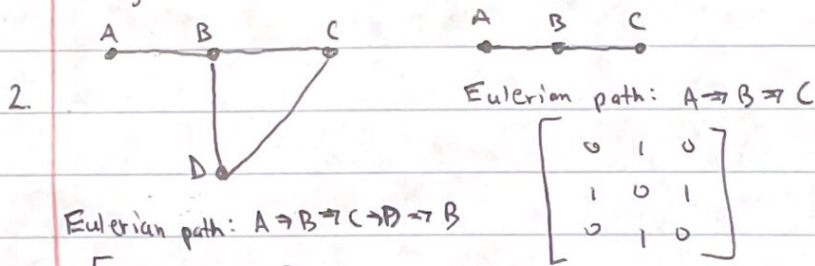


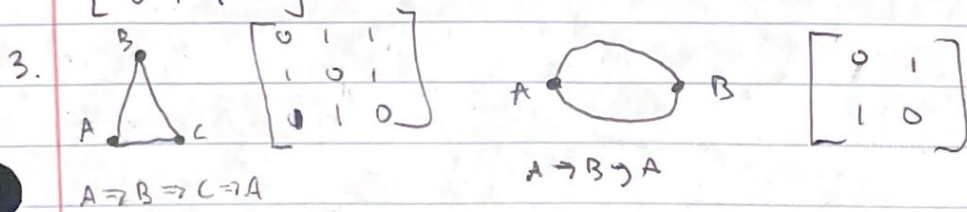
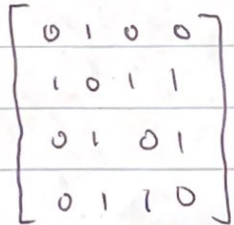
HW 17



Neither graph has an Eulerian path or cycle b/c they both have more than 2 vertices of odd deg.



Eulerian path: $A \rightarrow B \rightarrow C \rightarrow D \rightarrow B$



4. Beginning with the first vertex and travelling along n vertices we find that each vertex must have pairs of edges which are inbound and outbound. Since the starting and ending vertices are the same, the terminal vertex will also have even degree.

5. The above proof is similar, but since the end points are different or could be, we could theoretically have endpoints of odd degree.