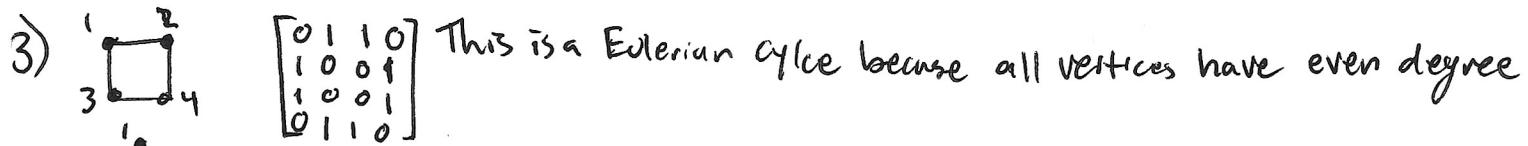
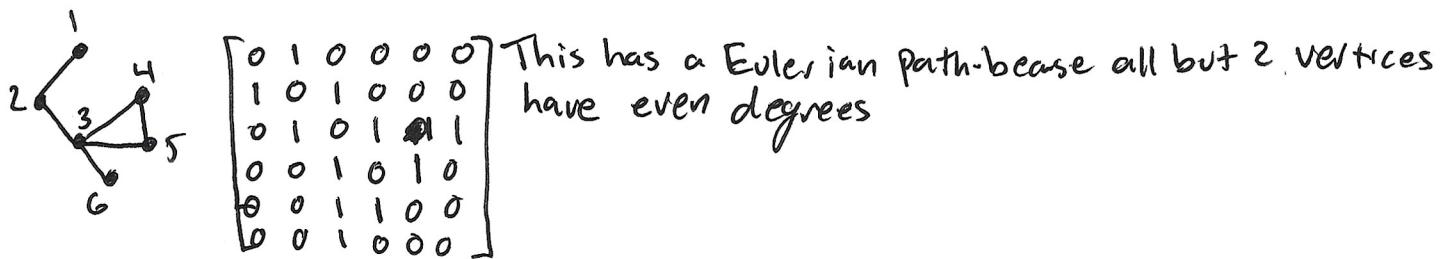
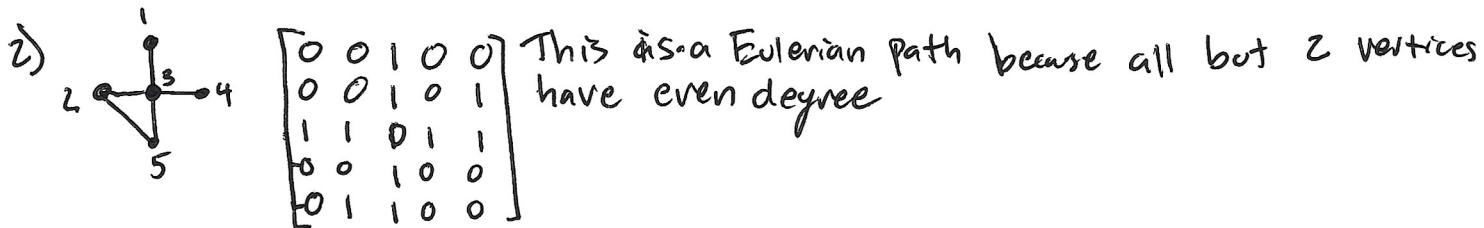
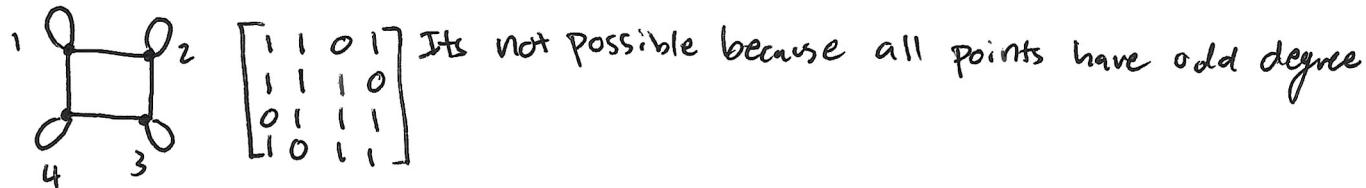
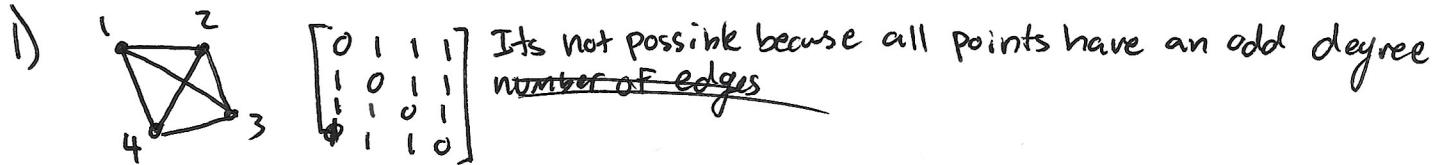


Quin Buob
HW 17

Ok to post



- 4) For there to be a Eulerian cycle all vertices must have even degree, this is because Everytime something enters a vertex it must be able to exit, this means that the edges must be in pairs ($2n$) \Rightarrow Degree = $2n$ at every point.
- 5) For there to be a Eulerian Path all but 2 vertices must have even degrees. This is because all but the start and end vertices must have an "entrance" and an "Exit" so they must come in pairs ($2n$). The start vertex must only be able to exit so it does not need its edges to come in pairs, in fact it cannot have $2n$ edges. By a similar logic, the end vertex only needs an entrance so it can't have $2n$ edges attached