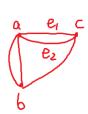
CS1231 Review 20

1. Draw graph H if its incidence matrix is as follows.



2. Let G be a graph and $n \in \mathbb{Z}^*$. A path of length n from vertex u to v is



- 3. A circuit is a path with at lest one edge and with starting vertex = ending vertex
- 4. A path or circuit is simple if no repeat edges.
- 5. A graph G is connected if there is a path between any 2 distinct vertice
- 6. A maximal connected subgraph of a graph G is called a connected component.
- 7. An Euler circuit of a graph G is a simple circuit that goes through every vertex and every edge in the graph
- 8. A connected graph has an Euler circuit iff every vertex is of even degree
- 9. A Euler path of a graph G is a simple path not a circuit that goes through every vertex and every odges in the graph.
- 10. A graph has an Euler path iff every vertex but 2 vertices has