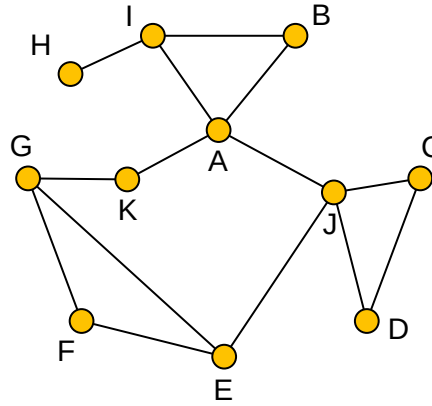
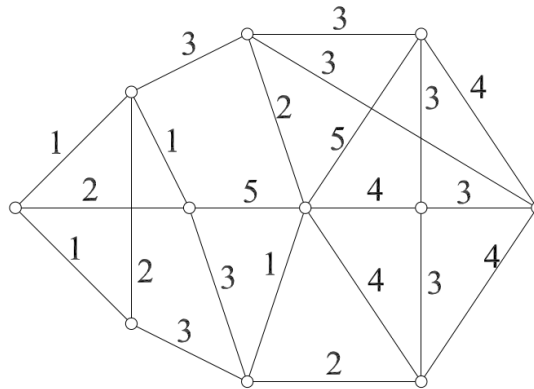


3. BASIC GRAPH ALGORITHMS

1. a) Execute a breadth-first search on the following graph starting from vertex *A*. (List the vertices in the order of visitation, and give the spanning tree provided by the algorithm.)
- b) Execute a depth-first search on the following graph starting from vertex *A*. (List the vertices in the order of visitation, and give the spanning tree provided by the algorithm.)



2. Using Kruskal's algorithm, find a minimum spanning tree in the following edge-weighted graph:



3. Using Kruskal's algorithm, find a minimum spanning tree in the following edge-weighted graph:

