Show **ALL** work for credit; be neat; and use only **ONE** side of each page of paper.
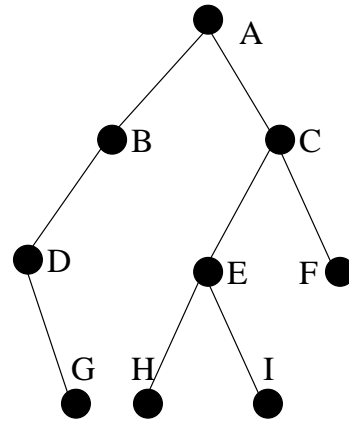
1. For the binary tree to the left:
 A. List the vertices in Preorder.

 B. List the vertices in Inorder.

 C. List the vertices in Postorder.

2. For a connected graph G, Prove: $|E| = |V| \iff G$ has an edge e so that $G - e$ is a tree.