MAD 3104 DM1	Quiz 8B	22 Nov 1995	Name:	
Show <b>ALL</b> work for credit; be neat; and use only <b>ONE</b> side of each page of paper.				
1. Draw the binary trees.				
A. The smallest binary tree containing the vertices with level order numbers 56, 58, 19, and 7.				
B. The vertices in postorder are $DHFBGCAE$ and the vertices in inorder are $DFHEBAGC$ .				

2. Prove by (strong) induction of the number of **CYCLE** edges (say n): A connected graph has  $|E| \ge |V| - 1$ . [Note that strong induction is required.  $C_n$ , the cycle graph, has n cycle edges, but once you remove the edge e, the number of cycle edges in the resulting graph,  $C_n - e$ , is zero.]