Problem # 1
Compute the labeled tree with Prüfer sequence (9, 8, 2, 3, 2, 1, 7, 7, 1).

Problem # 2
Compute all labeled trees on 4 vertices and the corresponding Prüfer sequences.

Problem # 3
In the following network, show that the current flow is maximal by exhibiting a minimum cut. Here, the first number is the current flow and the second number is the capacity of the edge.

Problem # 4
Obtain a maximum flow and a minimum cut in the following network:
Problem # 5
Obtain a maximum flow and a minimum cut in the following network:

![Network Diagram]