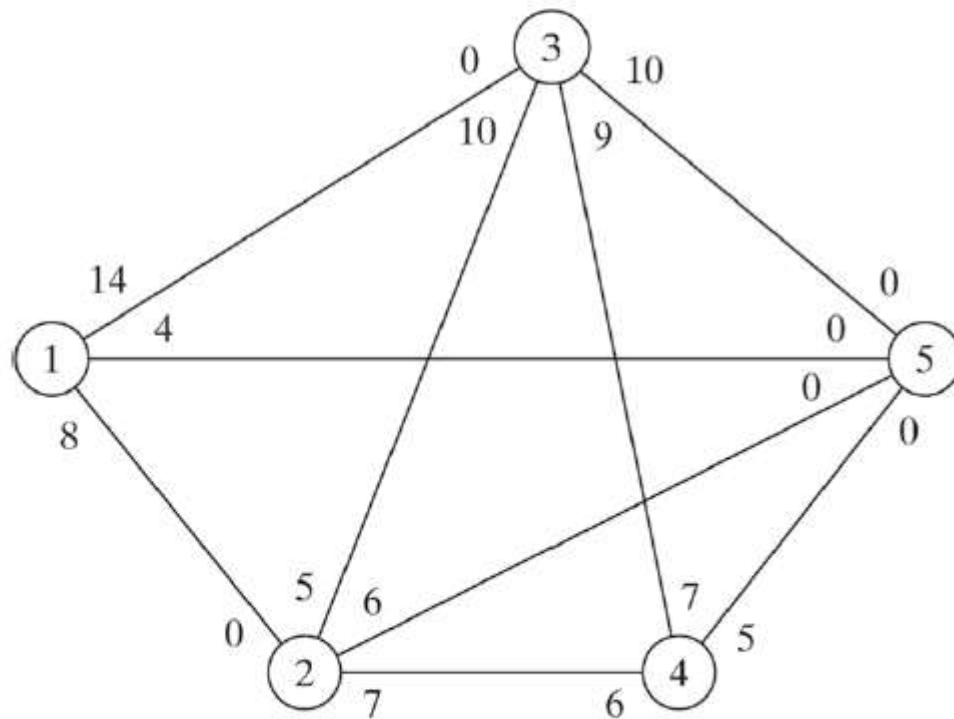


- 1) In Example 6.4-2,
  - (a) Determine the surplus capacities for all the arcs.
  - (b) Determine the amount of flow through nodes 2, 3, and 4.
  - (c) Can the network flow be increased by increasing the capacities in the directions  $3 \rightarrow 5$  and  $4 \rightarrow 5$ ?
- 2) Determine the maximal flow and the optimum flow in each arc for the network in Figure 6.32.



**Figure 6.32** Network for Problem 2.