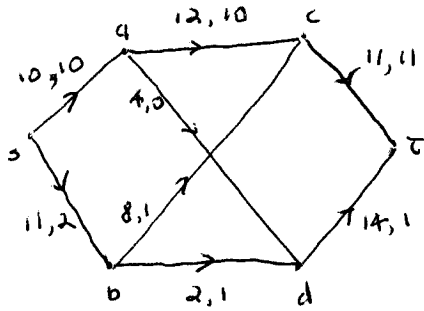
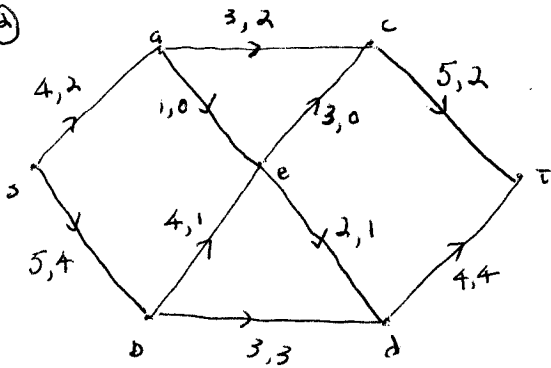


①



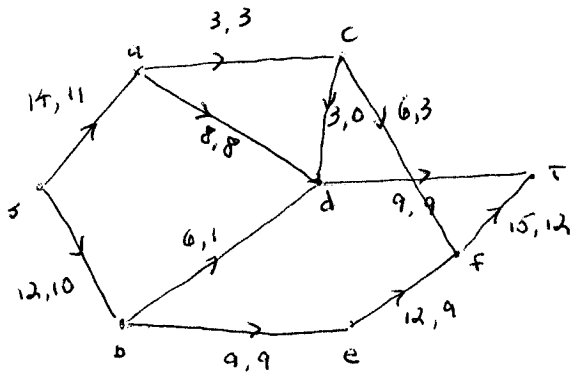
- A) FIND THE VALUE OF THE INDICATED FLOW,
- B) FIND THE CAPACITY OF THE (S,T)-CUT GIVEN BY  $S = \{s, a, c\}$  AND  $T = \{b, d, t\}$ .
- C) SHOW THAT  $VAL(F) = \sum_{u \in S, v \in T} (f_{uv} - f_{vu})$  FOR  $S, T$  GIVEN IN PART B).

②



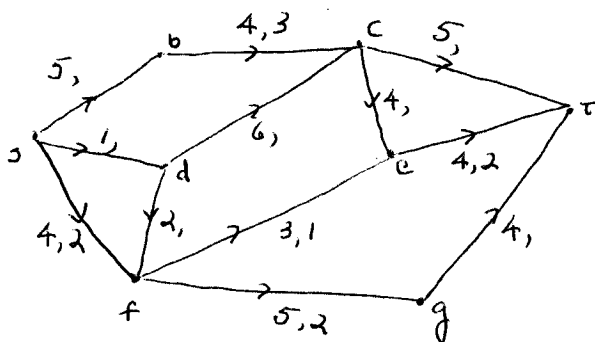
- A) FIND THE VALUE OF THE INDICATED FLOW,
- B) FIND THE CAPACITY OF THE (S,T)-CUT GIVEN BY  $S = \{s, a, b\}$  AND  $T = \{c, d, e, t\}$ .
- C) FOR  $S, T$  AS ABOVE, SHOW THAT  $VAL(F) = \sum_{u \in S, v \in T} (f_{uv} - f_{vu})$ .

③



- A) FIND THE VALUE OF THE INDICATED FLOW,
- B) FIND THE CAPACITY OF THE (S,T)-CUT GIVEN BY  $S = \{s, a, b, d\}$ ,  $T = \{c, e, f, t\}$ .
- C) FOR  $S, T$  AS ABOVE, SHOW THAT  $VAL(F) = \sum_{u \in S, v \in T} (f_{uv} - f_{vu})$ .

④



- A) FIND THE MISSING FLOWS FOR THE ARCS, AND THE VALUE OF THE FLOW.
- B) IF  $C = \{s, t\}$  WHERE  $S = \{s, b, d, f\}$  AND  $T = \{c, e, g, t\}$ , FIND  $CAP(C)$ .