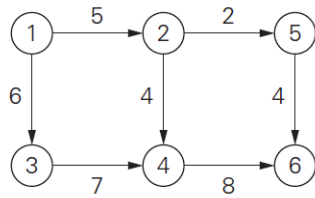
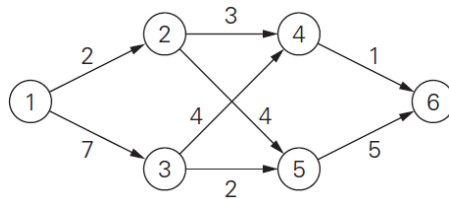


Q: Apply the shortest-augmenting path algorithm to find a maximum flow and a minimum cut in the following networks.

a.

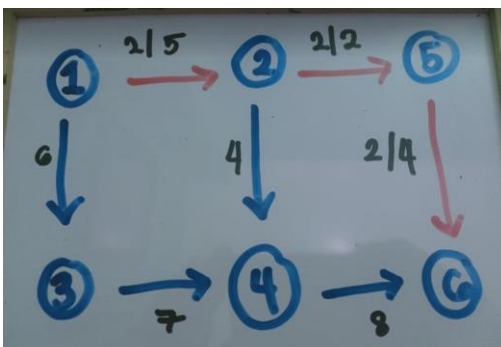
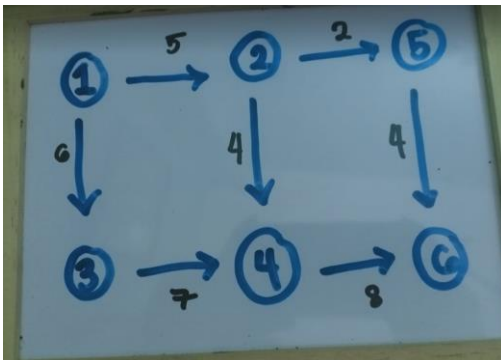


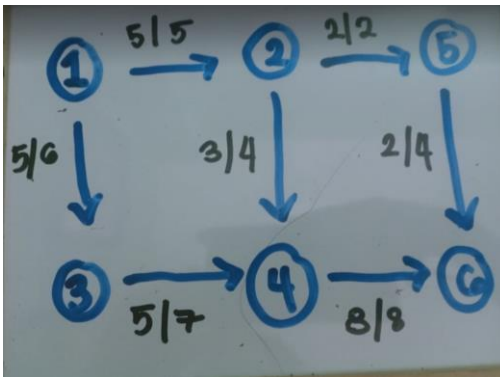
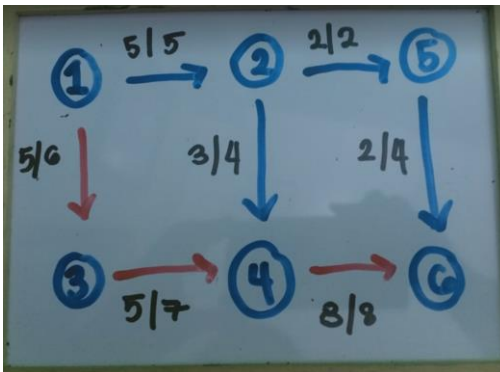
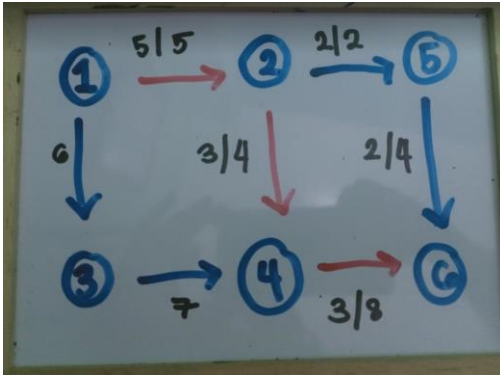
b.



A:

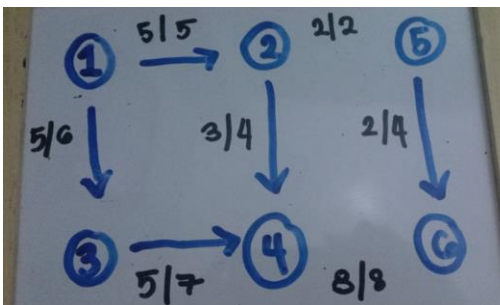
a.



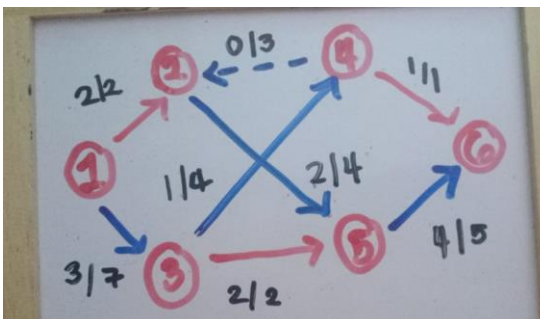
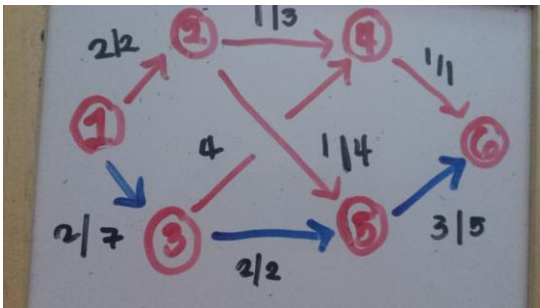
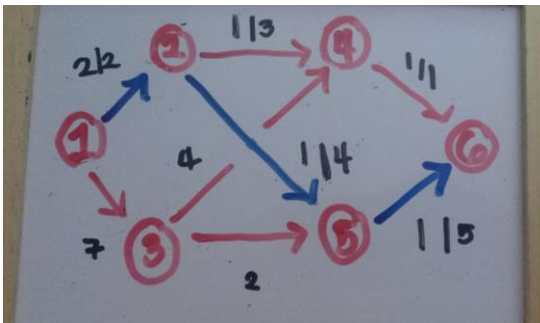
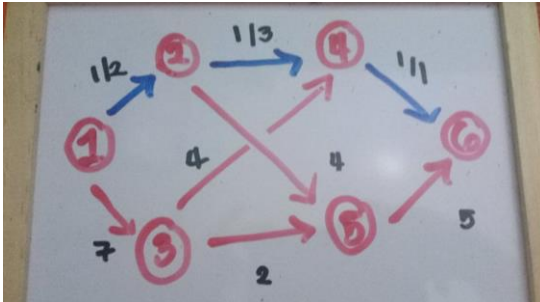
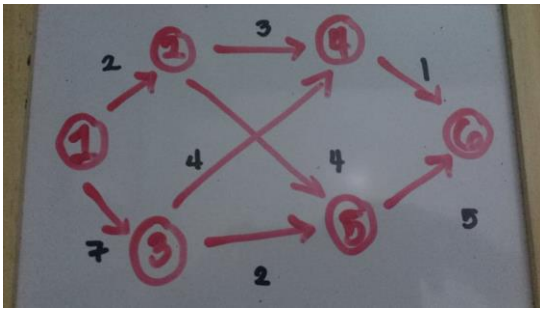


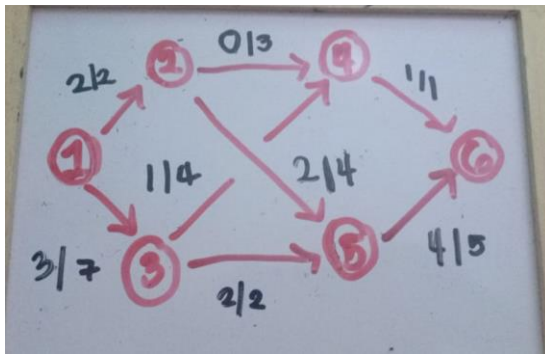
Maximum flow = $2 + 3 + 5 = 10$

Minimum cut at $\{(2,3), (4, 6)\}$



b.





Maximum Flow = $1 + 1 + 2 + 1 = 5$
 Minimum cut at $\{(1, 2), (3, 5), (4, 6)\}$

