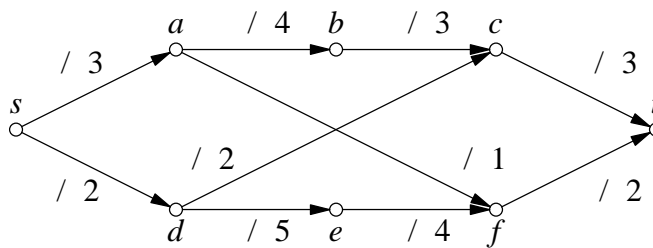


Network Flows Worksheet

Question #7(a)- Instructions

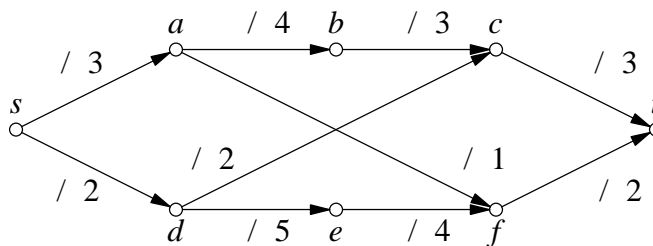
Use the second page to show each step of the maximum flow algorithm as follows.

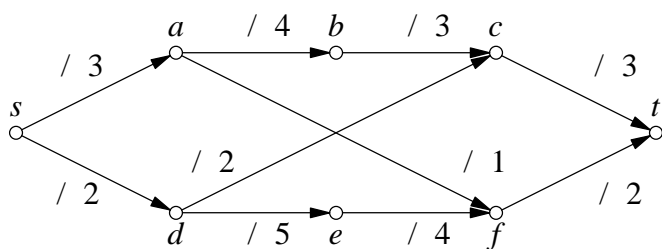
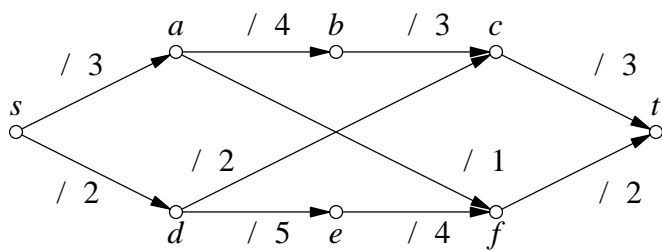
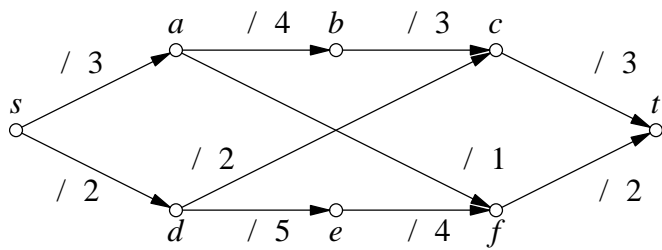
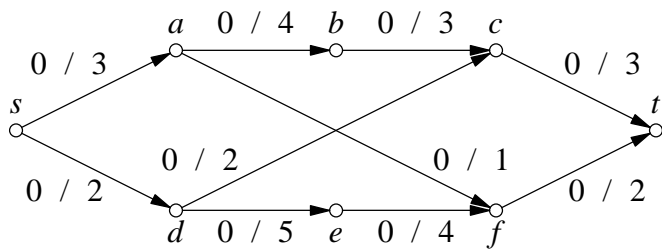
1. Draw the auxillary graph on the right hand side of the page.
 2. Show the augmenting path you choose from the auxillary graph by marking the edges with a red pen in the typeset graph on the LHS of the page.
 3. Show the change in the flow function by filling in the new flow values for the next typeset graph on the page.
- (b) Fill in your final flow values from question 7(a). Indicate on the figure the vertices in P and those in \bar{P} .

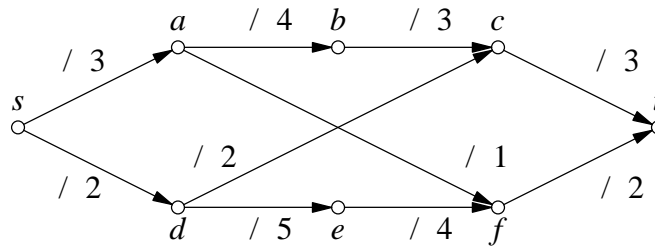


The capacity of (P, \bar{P}) is:

- (c) Indicate an alternate maximum flow:







Gomory Hu Worksheet

Question #8 Instructions

1. Choose the lexicographically smallest next pair of vertices at each step. Write the pair chosen beside the graph.
2. Indicate the maximum flow between this pair of vertices by filling in flow values on the figure as for question #7.
3. Indicate the minimum cut chosen by circling the vertices in each half of the cut.
4. Draw the portion of the cut tree computed so far to the right of the graph.

