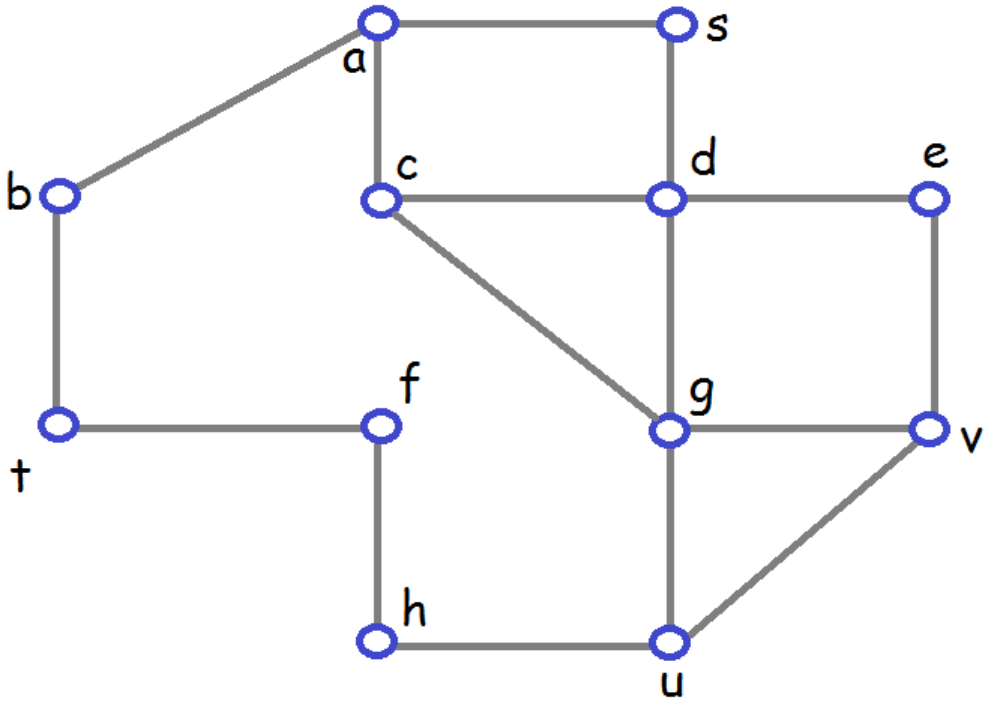
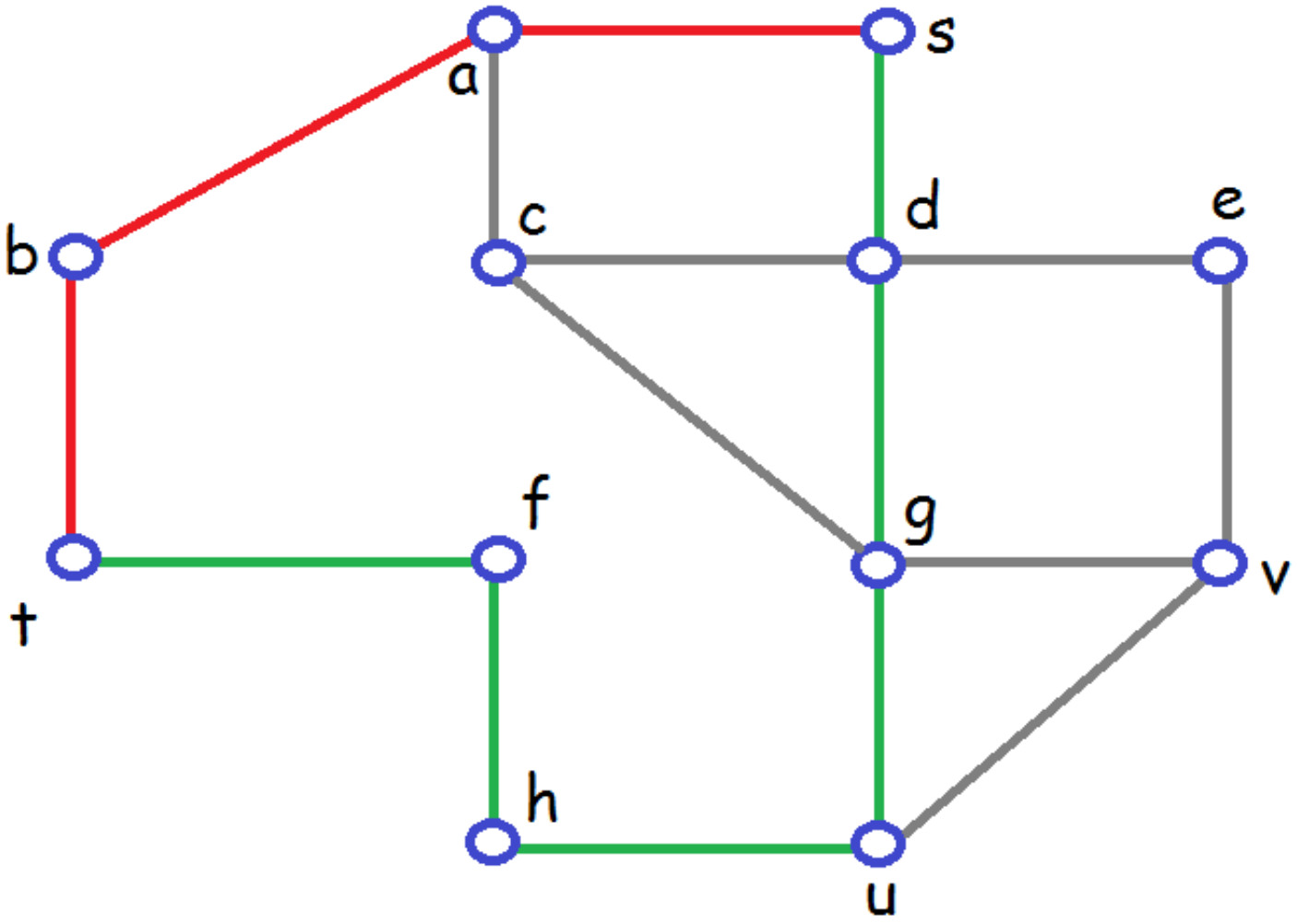
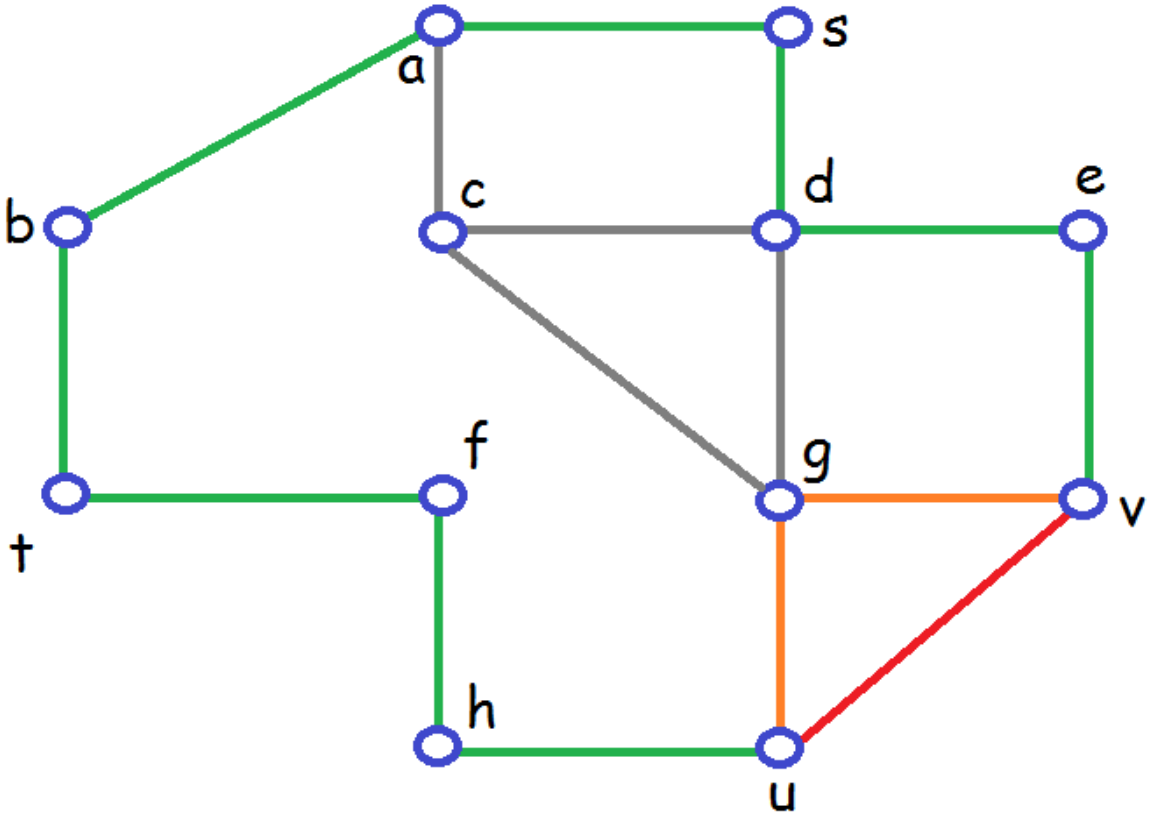
1. Find a maximum number of edge disjoint paths and a minimum cut between s and t and between u and v.
2. Find a minimum s,t-cut $(P, \bar{P})$ and a minimum u,v-cut $(Q, \bar{Q})$ that cross. Then find another minimum u,v-cut $(R, \bar{R})$ that does not cross $(P, \bar{P})$.



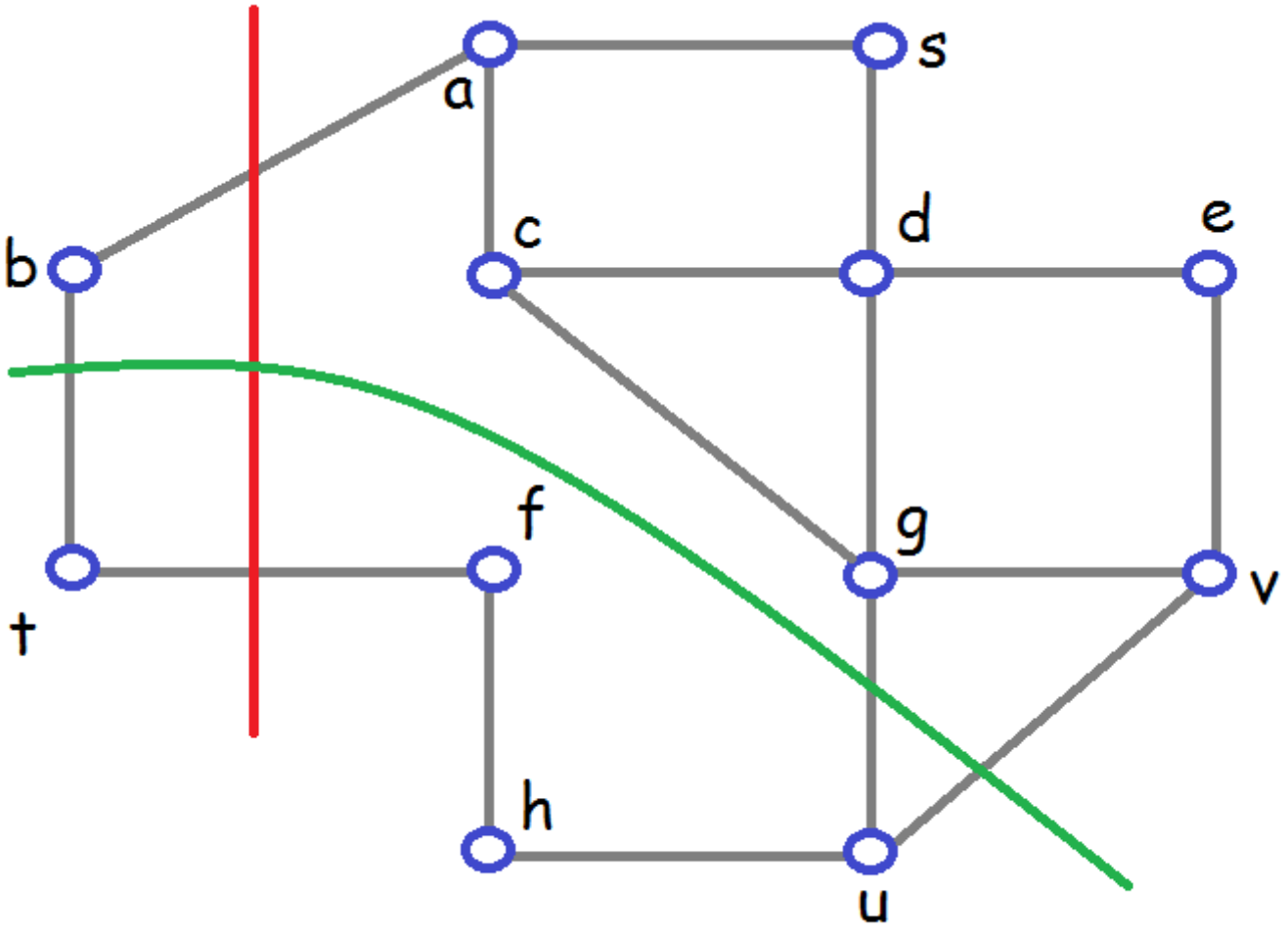
Find a maximum number of edge disjoint paths and a minimum cut between s and t.



Find a maximum number of edge disjoint paths and a minimum cut between u and v.



Find a minimum s,t-cut (P, $\bar{P}$) and a minimum u,v-cut (Q, $\bar{Q}$) that cross.



Then find another minumum u,v-cut (R, $\bar{R}$) that does not cross (P, $\bar{P}$).