

Exercises

- 3.1. Prove Proposition 3.2.
- 3.2. Find a maximum flow and a minimum cut for the network given in Figure 3.4.

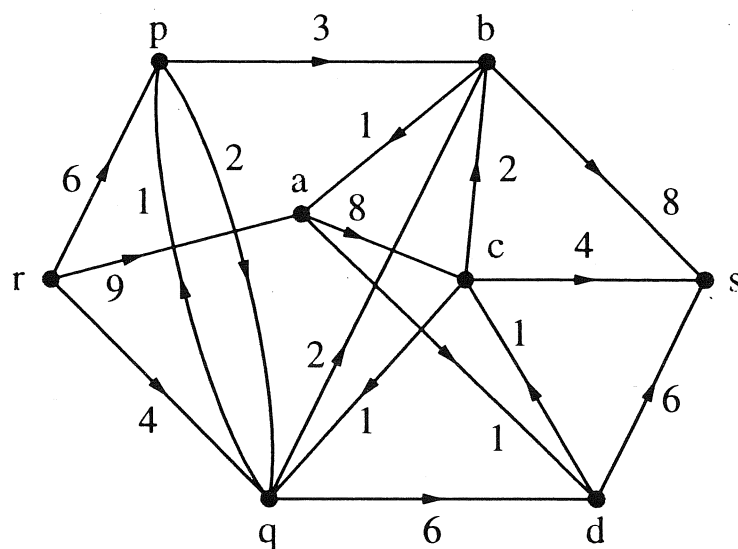


Figure 3.4. Maximum flow exercise

- 3.6. Use Corollary 3.8 and knowledge of one minimum cut in Figure 3.1 to show that there is a unique maximum flow.
- 3.7. Let $\delta(R_1)$ and $\delta(R_2)$ be minimum cuts. Prove that $\delta(R_1 \cap R_2)$ and $\delta(R_1 \cup R_2)$ are also minimum cuts.

Exercises

- 3.16. Find a maximum matching and a minimum cover in the bipartite graph of Figure 3.10.

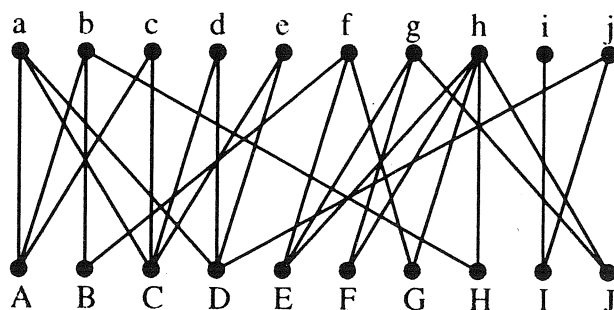


Figure 3.10. Bipartite matching exercise