Last name _____

First name _____

LARSON—MATH 356—CLASSROOM WORKSHEET 22
Chromatic Polynomials, Network Flows

Review

- What is an algorithm for computing $P(K; G)$?

1. Use this algorithm to compute $P(K; C_3)$.

2. What is the complexity of this algorithm?
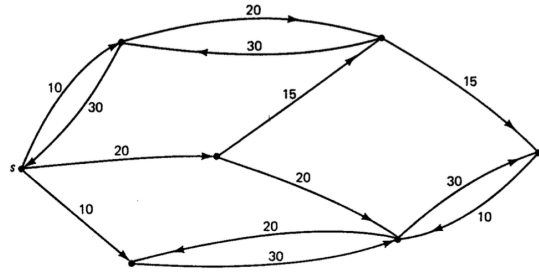
Network Flows

3. What is a *directed graph*?

Fig. 3.1.1: A network

4. What is a *source* and *sink* in a directed graph?

5. What is a *capacity* of an edge in a directed graph?

6. What is a *network* **X**?

7. What is a *flow* in a network?

8. What is the *value* of a flow in a network?

9. Why does a maximum flow in a network *exist*?