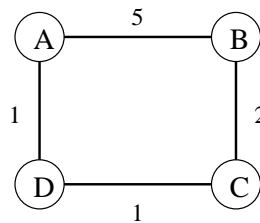


Computer Networks
Spring 2002
Assignment 7

Problem 22 (8 points):

Consider the following network:



1. Use the link state algorithm to compute the distance table for node *A*. Show all work (similar to table 4.2 in the book). (2 points)
2. Consider now the distance vector algorithm.
 - (a) Compute distance tables for all nodes. Show all work (similar to figure 4.7 in the book). (2 points)
 - (b) Show how the distance tables get updated if the cost of the link from *A* to *D* changes from 1 to 6. (2 points)
 - (c) Show the same as in (b), but now with the poisoned reverse technique. (2 points)

Problem 23 (2 points):

Find an RFC in which the TOS bits in the IP header are specified and list the different services they represent. What is the default TOS for ICMP error messages?