Fall 1999 **CMSC 651: Homework 5** Samir Khuller

Due in class: Nov 24.

(1) Problem 27.2-9 (page 600)

(2) From page 614

  (a) Problem 27.4-1

  (b) Problem 27.4-2

  (c) Problem 27.4-6

(3) Problem 27-2 (page 626)

(4) Problem 27-4 (page 627)

(5) Design a polynomial time algorithm to find a minimum weight vertex cover in a bipartite graph by directly reducing it to network flow. (Nodes have weights, and we wish to find a minimum weight subset of nodes to cover all the edges.)