5B5870 COMBINATORIAL OPTIMIZATION Spring 2007
Instructor: Anders Forsgren

Homework Assignment 1
Due Wednesday February 21 2007

Exercise 1.1 Solve Exercise 5.2 in *Combinatorial Optimization: Algorithms and Complexity*. Assume that the weight vector c is nonnegative and that the initial dual vector π is chosen zero. (Page 115)

Exercise 1.2 Solve Exercise 5.6 in *Combinatorial Optimization: Algorithms and Complexity*. Assume that the network is such that each node in the network is on a path between s and t. (Page 116)

Exercise 1.3 Solve Exercise 5.7 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 116)

Exercise 1.4 Solve Exercise 5.8 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 116)

Exercise 1.5 Solve Exercise 6.8 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 134)

Exercise 1.6 Solve Exercise 6.11 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 135)

Exercise 1.7 Solve Exercise 7.5 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 151)

Exercise 1.8 Solve Exercise 7.6 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 151)

Exercise 1.9 Solve Exercise 7.8 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 151)

Exercise 1.10 Solve Exercise 8.8 in *Combinatorial Optimization: Algorithms and Complexity*. (Page 188)

Good luck!