Homework 8

CS 525*

1. Do exercise 5-2-3 with MATLAB. You should go through the steps of the revised simplex method as shown in Example 5-2-1.

2. Do Exercise 5-2-2 with MATLAB. You may convert to canonical form and use the MATLAB routine rsm.

3. What is the dual of the problem in Exercise 5-2-3? Use the results of the above exercise to exhibit a dual solution of the problem in Exercise 5-2-3 and prove that this solution is optimal.


5. Do exercise 5-2-12. You may use the routine simplex to do this.

6. Set up the phase I problem and solve using rsmbdd to show how to generate an initial basic feasible solution for the problem in 5-2-12. Make sure you print out both B and N that result from this.

*Homework is due in class on Friday April 12. No late homework accepted.