Computer Methods in Operations Research - I

Homework 1 Due: Tues, September 22, 1998

All exercises from Linear Programming, V. Chvatal

1. P.11, ex 1.8. Solve the linear program.
2. P.26, ex 2.2.
3. P.44, ex 3.9. Sketch the constraint region in each case.
4. P.44, ex. 3.10.

You may use Maple to solve systems of equations for you, but will get NO CREDIT simply for using the Maple simplex package to solve a problem! In other words, you should set up the starting dictionary, and figure out the entering and leaving variables for each pivot, using Maple to actually do the pivot for you. Hand in a list showing the iterations made, giving the basis, and entering and leaving indices.

Policy on Late Assignments: -10% per day, including weekends. Assignments are due in class. Hand in late assignments to my mailbox in MC318, after getting it date stamped.