CSEP 521 - Spring 2005
Assignment 4

Due 4/28/05

1. Consider the following Linear Program:

   - Maximize
$$3x + 5y$$

   - Subject to

$$
\begin{aligned}
x &\leq 4 \\
y &\leq 6 \\
3x + 2y &\leq 18 \\
x, y &\geq 0
\end{aligned}
$$

   (a) Draw the feasible region.
   (b) Determine the solution graphically.
   (c) Put the LP into slack form.
   (d) Solve the LP using the Simplex algorithm.
   (e) Show which vertices of the feasible region are visited in your pivot steps.

2. Problem 29.2.7 on page 790 of CLRS.

3. Problem 29.5.7 on page 817 of CLRS.