

Third Homework Assignment for Math 308

Due: Thursday, February 21st.

Reminders:

The midterm exam will be held in class on **Thursday, February 7th**. It covers up to the end of Chapter 2. The last day to drop a class is Friday, February 8th.

All section references are to the Strayer text.

Problems to hand in:

Chapter 2 exercises 7, 10.

Chapter 3 exercises 4, 6, 7.

Consider the following non-canonical tableau:

x_1	x_2	-1	$=$	-0
1	-2	10	$=$	$-t_2$
3	1	-4	$=$	f
-2	3	0	$=$	

Write a non-canonical maximization problem with slack variables, which has this as its initial tableau. Then use the non-canonical simplex algorithm to find an optimal solution, and the optimal value f for this linear program.

Some other problems you should try:

Strayer has a few more useful exercises in Chapter 3.

Reading for the next three weeks:

For Tuesday, February 5th, Sections 3.0 and 3.1.

For Tuesday, February 12th, Sections 3.2 and 3.3.

For Thursday, February 14th, Sections 4.0 and 4.1.

For Tuesday, February 19th, Sections 4.2 and 4.3.

For Thursday, February 21st, Section 4.4.

Students in quantitative sciences may be interested in the PIMS Mathematical Biology Summer Workshop in May at the University of Alberta. Some travel funding is available on a competitive basis. For details see:

<http://www.math.ualberta.ca/~mathbio/summerworkshop/index.html>