UNIVERSITY OF TEXAS AT DALLAS
Telecommunications Engineering

TE3302 Signals & Systems
Problem Set #11: Fourier Transform and Sampling

Date assigned: November 29, 2000
Date due: December 8, 2000 (Friday)

Homework is due at the beginning of class. Late homework will not be accepted.

Reading: *Signals & Systems*, Chapter 7

You may use any computer program to help you solve these problems, check answers, etc.

Problem 11.1 Fourier Transform Properties
    Problem 4.12 in *Signals & Systems*.

Problem 11.2 Fourier Transform - Convolution Property
    Problem 4.19 in *Signals & Systems*.

Problem 11.3 Fourier Transform
    Problem 4.21 (a), (b), and (h) in *Signals & Systems*.

Problem 11.4 Sampling Theorem
    Problem 7.1 and 7.2 in *Signals & Systems*

Problem 11.5 Sampling Theorem
    Problem 7.6 in *Signals & Systems*