

UNIVERSITY OF TEXAS AT DALLAS
Telecommunications Engineering

TE3302 Signals & Systems
Problem Set #10: Fourier Transform

Date assigned: November 22, 2000

Date due: November 29, 2000

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

Reading: *Signals & Systems*, Sections 4.1, 4.2, and 4.3

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

Problem 10.1 Fourier Transform

Problem 4.1 and 4.2 in *Signals & Systems*.

Problem 10.2 Fourier Transform of periodic signals

Problem 4.3 in *Signals & Systems*.

Problem 10.3 Inverse Fourier Transform

Problem 4.4 in *Signals & Systems*.

Problem 10.4 Fourier Transform Properties

Problem 4.6 and 4.7 *Signals & Systems*.