

UNIVERSITY OF TEXAS AT DALLAS
Telecommunications Engineering

TE3302 Signals & Systems

Problem Set #7: Properties of Convolution and LTI systems

Date assigned: October 18, 2000

Date due: October 25, 2000

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

Reading: *Signals & Systems*, Sections 2.5 and 3.0

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

Problem 7.1 Properties of Linear Time Invariant Systems

Problem 2.43 (b) in *Signals & Systems*.

Problem 7.2 Properties of Convolution

Problem 2.41 (a) and (b) in *Signals & Systems*.

Problem 7.3 Integrals

Problem 2.20 in *Signals & Systems*.