

**ECE 4270 - Summer 2004  
Homework Assignment #3**

Assigned: May-26-2004

Due Date: June-2-2004

**General Note:**

- Homework is due at class time on the “Due Date”; no late homework will be accepted.
- Make a **COVER PAGE** for your homework, including your name and GT number. You can find a sample cover sheet in the website for class resources. Staple your homework together; the TA will not be responsible for missing pages.
- Solutions will be available on the course web site after each corresponding due date.

**Reading:** In *Discrete-Time Signal Processing*, Chapter 3, pp. 95-127; Chapter 4, pp. 140-153.

**Exercise Problems:**

**PROBLEM 3.1:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 3, Prob.3.1, 3.6, and 3.16.

**Graded Problems:**

**PROBLEM 3.2:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 3, Prob.3.23, page 132.

**PROBLEM 3.3:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 3, Prob.3.24, page 132.

**PROBLEM 3.4:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 3, Prob.3.31, page 133.

**PROBLEM 3.5:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 3, Prob.3.34, page 134.