

**ECE 4270 - Summer 2004  
Homework Assignment #2**

Assigned: May-19-2004  
Due Date: May-26-2004

**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:** *Discrete-Time Signal Processing*, Chapter 2, pp. 40–64.

**PROBLEM 2.1:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 44, page 80-1.

**PROBLEM 2.2:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 45, page 81.

**PROBLEM 2.3:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 51, page 82.

**PROBLEM 2.4:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 53, page 83.

**PROBLEM 2.5:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 54, page 83.

**PROBLEM 2.6:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 66, page 87.

**PROBLEM 2.7:**

*Discrete-Time Signal Processing, 2nd Edition*, Chap. 2, Prob. 68, page 87