ECE 222   Fall 2004

Problem set 5:   **Date Issued: Oct. 27**
                                                                                Date Due: Nov. 3

Reading Assignment: Sect. 3.8, 4.1-4.4 in Oppenheim and Willsky. *Note in Chapter 3, we will not cover sections 3.9-3.11.*

Do the following problems in Oppenheim and Wilsky. Be sure to clearly explain your work and state any assumptions that you make.

- 3.38 (work this problem by first finding the frequency response $H(e^{j\omega})$ of the LTI system and the Fourier series for the input. Then use the eigenfunciton property of complex exponentials to find the Fourier Series for the output.)

- 4.21 (a),(b), (d),(f)

- 4.22 (a),(b),(c)

- 4.23

- 4.24