Northwestern University

Department of Electrical and Computer Engineering

ECE 222   Fall 2004

Problem set 6:   **Date Issued: Nov. 3**
                                                                        Date Due: Nov. 12

Announcements:

- Next week the TA office hours will be moved from Tuesday, Nov. 9 to Friday, Nov. 12 from 10:00-12:00 (the morning before this homework is due).

- Next Tuesday (Nov. 9), there will be a substitute TA running the TA session.

- **Reminder:** Exam II will be on Monday, Nov. 15 during class. The exam is closed book, but you can bring 2 page of handwritten notes (8.5×11 paper, both sides). The exam will emphasize continuous-time and discrete-time Fourier Series (Chapter 3) and continuous-time Fourier Transforms (Chapter 4), but you should also remember the material from the first exam.

Reading Assignment: Sect. 4.5-4.7, Sect. 5.1-5.2 in Oppenheim and Willsky.

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

- 4.26

- 4.28 (a) and (b) parts i - iii.

- 4.32

- 4.33

- 4.36