

EE 301 (MWF 2:30-3:20 Section)
Spring 2013
Problem Set 9
Due April 5, 2013

“O&W” is Oppenheim and Willsky, Edition 2. Please read Sections 5.0 – 5.5, 5.8 on the discrete-time Fourier Transform.

Exam 3 is Monday April 8 from 6:30 pm to 7:30 pm in LYNN 1136. Seating will be assigned and student identifications will be checked. Please come prepared.

1. Computing the DTFT: O&W 5.21 (d, j).
2. Computing the inverse DTFT: O&W 5.22 (d, h).
3. Discrete-time modulation and DTFT: O&W 5.27 (both parts but only for $p[n]$ given in ii, iv).
4. DTFT calculations to implement LTI systems: O&W 5.29 (a – ii, b – i).
5. All-pass system: O&W 5.35.
6. Decimation: O&W 5.43.
7. Design of an LTI system: O&W 5.50 (a).

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