

EE 301 (MWF 2:30-3:20 Section)  
Spring 2013  
Problem Set 8  
Due March 29, 2013

“O&W” is Oppenheim and Willsky, Edition 2. Read Section 3.6 on discrete-time Fourier Series for the problems below.

1. Calculation of discrete-time Fourier series: O&W 3.28 (c, d).
2. Calculation of inverse discrete-time Fourier series: O&W 3.29 (b, d).
3. Periodic signal through LTI system: O&W 3.36 (b).
4. Using DTFS properties: O&W 3.48 (b, d, h).
5. DTFS detective problem: O&W 3.50.
6. Important property of LTI systems: O&W 3.60 (a, b, g).

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