EE 301 (MWF 2:30-3:20 Section)
Spring 2013
Problem Set 1
Due January 16, 2013

"O&W" is Oppenheim and Willsky, Edition 2.

1. Conversions from polar to rectangular form: O&W 1.48 (b, c, d).

2. Conversions from rectangular to polar form: O&W 1.49 (c, g, k, l).

3. Using Euler's relation: O&W 1.51 (c, d).

4. Properties of complex conjugate: O&W 1.52 (b, d, h).

5. The geometric series: O&W 1.54.

6. Evaluating sums: O&W 1.55 (d).

7. Transformations of the independent variable: O&W 1.21 (c, d) and 1.22 (b, g).

8. Even and odd parts of a signal: O&W 1.23 (a).

9. Periodicity: O&W 1.26 (a, c).

10. More on periodicity: O&W 1.32 (3, 4) and O&W 1.33 (3, 4).