

## EE 221 – *Circuits II*

### Homework #11

10 points

*Date Assigned:* 10/30

*Date Due:* 11/3

- 11.1 Derive equation (17.9) in the text showing every step. Use the same level of detail as was used in the class and the lectures notes for the derivation of  $a_n$ .
- 11.2 Text problem 17.2. Use whatever mathematics package you wish and plot this Fourier series expansion for a large number of terms. Identify the function that has been expanded into this Fourier series.
- 11.3 Text problem 17.6
- 11.4 Text practice problem 17.1.
- 11.5 Text practice problem 17.2.
- 11.6 Text problem 17.4.