

ECE2311 Homework Assignment Number 4

Due by 10:50am on 13-Apr-2010

Try to do some of these problems each day; don't wait until the last minute. Be sure your name and ECE box appear legibly on the front page. Show all work, and keep your work neat and organized. Whenever appropriate, use *words* to explain what you are doing, not just mathematical symbols. Be sure to justify your answers so the grader can be confident that you aren't just guessing.

1. 3 points. Lathi 6.3-1 (b) and (c). You can use your answers from homework 3 to compute the D_n coefficients for (b) without integrating. For (c), you should compute the D_n coefficients directly.
2. 4 points. Lathi 6.3-3.
3. 4 points. Lathi 6.4-3. Also plot the input and output for $-1.5 \leq t \leq 1.5$ using Matlab.
4. 4 points. Lathi 7.1-3.
5. 4 points. Lathi 7.1-4.