

ELEN3801 - Fall 2009

Homework 11

Due Thursday December 10th at the **beginning** of class

(Mudd 227 9:10am)¹

Carefully justify ALL your answers

- 11.1 - Solve problem 6.1.3 from the textbook, parts (a), (c), (e), (g) and (i).
- 11.2 - Solve problem 6.2-3 (b) and (d). **Note:** Although these are not rational functions you can write them as the sum of terms that are the product of a rational function and e^{-as} , $a > 0$. You can now compute the inverse Laplace transform of each one of the terms by recalling the time-shifting property and what you know about rational functions.
- 11.3 - Problem 6.3.1 from the textbook.
- 11.4 - Problem 6.3-7 (i), (iii) and (iv) from the textbook.
- 11.5 - Problem 6.3-5 (c) from the textbook.
- 11.6 - Problem 6.6-1 from the textbook.

¹You can always hand-in the homework earlier if you so desire - just give it **in hand** to me or to one of the TAs, or leave it in **my** mailbox (in the EE office on the 13th floor of Mudd).