University of Portland
School of Engineering

EE 262
Spring 2017
A. Inan

Homework # 5-Laplace Transform & its Applications
(Assigned: Friday, March 3, 2017)
(Due: Wednesday, March 22, 2017, 9:15a.m.)

These problems are assigned from Engineering Signals and Systems in Continuous and Discrete Time Second Edition by Ulaby/Yeagle (2016) (pages 124-130):

3.15. Parts (a) & (c). Inverse Laplace transform.
3.16. Part (a). Inverse Laplace transform.
3.17. Part (c). Inverse Laplace transform.
3.18. Parts (b) & (c). Inverse Laplace transform.
3.23[+]. Laplace transform applied to electric circuits.
3.25 or 3.26. Transfer function and impulse response of an LTI system.
3.28. Transfer function and impulse response of an LTI system.
3.31. Transfer function and impulse response of an LTI system.
3.32. Laplace transform applied to electric circuits.
3.49*. Laplace transform applied to electric circuits.
[+]Optional Mini Project due Friday, March 24, 2017.
*Optional.

Please use the following guidelines for your homework solutions:
1) On the first sheet, at the top center, write: Homework #5-Solutions.
2) Provide your full name on the upper right corner of the first sheet.
3) Also write: EE 262/Spring 2017 on the upper left corner of the first sheet.
4) Solve each problem on a separate sheet unless your solution is very short.
5) Box all of your answers.
6) Staple your solutions in the above order before you turn them in.

Please turn in your homework on time.

Important reminder:
EE 262-Midterm Exam # 2 is on Friday, April 7, 2017, 9:15-10:10a.m.
Closed book exam, only 2 to 3 formula sheets are allowed.