University of Portland
School of Engineering

EE 262
Spring 2016
A. Inan

Homework # 6-Laplace Transform & its Applications
(Assigned: Wednesday, March 2, 2016)
(Due: Friday, March 18, 2016, 9:15a.m.)

These problems are assigned from <u>Engineering Signals and Systems</u> by Ulaby/Yeagle (2013) (pages 122-127):

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.
3.19. Laplace transform applied to electric circuits.
3.23. Transfer function and impulse response of a system.
3.26. Transfer function and impulse response of a system.
3.28. Transfer function and impulse response of a system.
3.29. Laplace transform applied to electric circuits.
3.46. Laplace transform applied to electric circuits.

Please use the following guidelines for your homework solutions:
1) On the first sheet, at the top center, write: <u>Homework #6-Solutions</u>.
2) Provide <u>your full name</u> on the upper right corner of the first sheet.
3) Also write: EE 262/Spring 2016 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 8, 2016, 9:15-10:10a.m.
Closed book exam, only 2 to 3 formula sheets are allowed.