

University of Portland

School of Engineering

EE 262
Spring 2017
A. Inan

Homework # 3

(Assigned: Wednesday, February 8, 2017)
(Due: Wednesday, February 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 79-84):

- 2.10. Part (b). Graphical convolution.** (See pp. 44-45)
- 2.12*. Convolution integral.** (See Example 2-5 on pp. 47-48)
- 2.14. Convolution integral.**
- 2.15. Properties of convolution integral.** (See Table 2-1 on p.56)
- 2.16. Properties of convolution integral.** (See Table 2-1 on p.56)
- 2.17. Part (b). Convolution integral.**
- 2.20*. Cascaded LTI system.**
- 2.22. Parts (a), (c) & (e). BIBO stable and causal LTI systems.**
(See Section 2-6, pp. 57-60)
- 2.23. Parts (a), (c) & (e). BIBO stable and causal LTI systems.**
*Optional.

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #3-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 # 1 is on Wednesday, March 1, 2017, 9:15-10:10a.m.
Closed book exam, only 1 formula sheet is allowed.