

University of Portland
School of Engineering

EE 262
Spring 2017
A. Inan

Homework # 7-Fourier Transform

(Assigned: Monday, April 3, 2017)

(Due: Monday, April 10, 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 244-252):

- 5.21. Fourier series.**
- 5.23. Fourier series applied to electric circuits.**
- 5.29. Fourier series applied to electric circuits.**
- 5.39. Fourier transform.**
- 5.41. Fourier transform.**
- 5.44. Fourier transform.**
- 5.47. Fourier transform.**
- 5.48. Fourier transform.**
- 5.52. Properties of Fourier transform.**
- 5.53. Properties of Fourier transform.**
- 5.54. Properties of Fourier transform.**
- 5.55. Properties of Fourier transform.**
- 5.56. Properties of Fourier transform.**

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #7-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 Wednesday, April 12, 2017, 9:15-10:10a.m.
Closed book exam, only 2 formula packages are allowed.