

HOMEWORK 8

Due: 11/02/2016

1. TEXTBOOK EXERCISES

10.2: 4, 8, 16, 18, 29

10.3: 4, 13, 14, 15, 17

10.4: 3, 6, 7, 16, 17, 35

Note: (1) Sketches for this homework are required and should be easy to complete by hand; and the purpose is to make sure you understand the content of the Fourier convergence theorem. (2) For question 13 of Section 10.3, the usual method of undetermined coefficients would suffice. For questions 14-15, consider the principle of superposition.

2. ADDITIONAL EXERCISES

A1. Problem 61 from Prof. Nolen's *Additional Homework Problems*.

A2. Problem 67 from Prof. Nolen's *Additional Homework Problems*.