

Homework 3 - Due Wed. Mar. 6th
Introduction to Harmonic Analysis and its Applications

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Homework Policies

As in homework 1.

Exercises marked by (*) are not mandatory, but give you extra credit that will accumulate throughout the course and may affect your final grade.

Study. Sections 5.3 and 5.4 in Chapter 2.

Exercises

Exercise 1 (30pts). Exercise 15 from chapter 2 in Stein and Shakarchi's book on the explicit expression of the Fejér kernel.

Exercise 2 (70pts). Exercise 19 from chapter 2 in Stein and Shakarchi's book on solving the Laplace equation on a strip.