

University of Colorado  
Department of Mathematics

2008/2009 Semester 2

Math 4330/5330 Fourier Analysis

Assignment 3

**Due Monday Feb. 2, 2009**

1. Read Sections 1.3, 1.4 and 1.5 of the Stade book. If you are enrolled in Math 4330, just read the statements, not the proofs of Lemma 1.4.1 and Theorem 1.4.1; if you are in Math 5330 skim the proofs too.
2. Please do the following problems on p. 22–23 of the Stade textbook:  
1.3.1, 1.3.2, 1.3.4, and 1.3.13. In addition, do the following problems on pp. 35:  
1.5.1 and 1.5.5.
3. If you are enrolled in Math 5330, do the additional problems (same book)  
p. 24: 1.4.3; p. 36, 1.5.7.