

Math 609
Problem set 5 due February 21, 2008
Dr. Epstein

Reading: Chapter 3 of Stein-Shakarchi.

Standard problems: The following problems should be done, but do not have to be handed in:

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Homework assignment: The solutions to the following problems should be carefully written up and handed in. All problems this week are from Stein and Shakarchi, Chapter 3.

1. page 103, problem 4.
2. page 104, problem 6.
3. page 104, problem 8. Hint $\cos \theta = \frac{1}{2}(e^{i\theta} + e^{-i\theta})$.
4. page 105, problem 12.
5. page 105, problem 13.
6. page 105, problem 14.
7. page 105, problem 15.
8. page 107, problem 20.