

01325 Mathematics 4, Spring 2013

Week no. 9

Theory: In the week April 8–12 the lecture covers Section 7.1.

Exercises for the week April 8–12: 7.1, 7.4 [only proof of Th. 7.1.2 (i)+(iii)], 7.5, 5.13 (only for f_3 and f_4), 6.10, 5.15

Hint to Exercise 7.4, proof of Th. 7.1.2 (i): Write $e^{-2\pi i x \gamma}$ in terms of $\sin(2\pi x \gamma)$ and $\cos(2\pi x \gamma)$ and use the rules for integration of even and odd functions.

I am confident that this program is enough, but if you want an extra challenge you can look at Exercise 5.14.

Homework 9, to be turned in no later than April 17: 7.2, 7.4 [only proof of Th. 7.1.2 (ii)+(iv)], 1.19

Regards,

Ole