

MAT 1000 2007-08
Prob. Set 2
Due Friday Nov. 12

All problems are from Chapter 2 of Folland (2nd ed.). In the computational problems the justifications for the calculations are at least as important as the calculations themselves.

Hand in the following.

9,11, 24, 29, 31(a), 37, 44, 50, 56, 57, 59, 63

Another suggestion for 59(b): Derive this from 58 by letting $s \rightarrow 0^+$. To justify this it might be useful to show that $\int_b^\infty e^{-sx} x^{-1} \sin x$ goes to 0 as $b \rightarrow \infty$, uniformly in s .

Strongly recommended to look at.

14, 16, 18, 20, 21, 26, 28, 31(c), 58