

Homework Assignment 5

Due Friday, November 14.

Problem 1

Peetre's theorem: Friedlander-Joshi, problem **6.3**.

Problem 2

Friedlander-Joshi, problem **8.9**.

Problem 3

The lemma of stationary phase: Friedlander-Joshi, problem **8.10**.

(**Hint:** Apply the result in problem 2 to the left hand side of the stationary phase formula and then expand in powers of $1/t$.)

Problem 4

The Poisson summation formula for lattices: Friedlander-Joshi, problem **8.11**.