

ERG 2011A, Fall Semester 2006

Homework #4

Due on Nov30 (Thursday), 2006 ; No Late submission will be accepted

Every Student MUST include the following statement, together with his/her signature in the submitted homework.

“I understand the University guidelines on academic honesty as shown in the web page <http://www.cuhk.edu.hk/policy/academichonesty/> and I agree to comply with the guidelines. I declare that I do not plagiarize or cheat in any way that violates the spirit of the guidelines. I understand the severity of disciplinary action should the guidelines be violated.

Signed (Student _____) Date: _____

Questions:

11.1) Q15 (find the fourier series, no need to sketch graph)

11.2) Q8, Q14

11.3) Q11, Q12, Q24 (no need to sketch graph)

11.4) Q9

11.9) Q2, Q6

Additional question:

Find the Fourier Transform of $f(x) = x \cdot \exp(-x)$, without using the integration.