

**ERG 2011A, Fall Semester 2006**

**Homework #1**

**Due on Sep 25 (Monday), 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:

1. Solve the Differential Equation of the computer virus modeling problem in page 8 of the lecture notes.
2. Find out the solution of the Differential Equation given in page 23 of the lecture notes.
3. Find out the solution of the Differential Equation given in page 24 of the lecture notes.

Additional questions from textbook (9<sup>th</sup> edition, KREYSZIG):

Set 1.3) Q4, Q6, Q15

Set 1.4) Q4, Q12

Set 1.5) Q8, Q14