Assignment 8 for MTH G131: Fall 2006

Due date: Wednesday November 8.

Reading: Logan, Chapters 6, 3.

1). [Nonlinear systems]

Logan, Chapter 6, p. 245: #16. [Find all the critical points as a function of K, and use the Jacobian matrix to evaluate their stability. Then see how things change as K varies].

2). [Second-order linear ODE: homogeneous]

Logan, Chapter 3, p. 94: #1(a),(b),(c), #2, #6.

3). [Second-order linear ODE: nonhomogeneous]

Logan, Chapter 3, p. 102: #2(a),(b),(c).

4). [Project]

Start planning your project. Refer to the guidelines and ideas on the course webpage. Contact me to discuss your plans.