

Math 331.1

Problem Set 3

Fall 2005

Due: Friday, Sept. 30, start of class

Exam 1: Friday, Oct. 7 (during class)

Covers Sections 1.1–1.8

1. Do page 107, Exercise 2. Also sketch the bifurcation diagram here.
2. Do page 108, Exercise 6. (As the problem is stated, you do *not* have to sketch the whole bifurcation diagram.)
3. Do page 110, Exercise 12.
4. Do page 121, Exercise 2.
5. Do page 121, Exercise 14. (You may use a calculator, computer software package, or a table of integrals to find any indefinite integrals involved.)
6. Do page 123, Exercise 26.