MATH 219A - DIFFERENTIAL EQUATIONS
WINTER 2007

MW: 1:10 - 2:30 P.M. (HATHORN 207)

Instructor: Peter Wong
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Office hours: 9:30 - 10:30 MW, 8:00 - 9:00 T, or by appointment
Text: Differential Equations by P. Blanchard, R. Devaney and G. Hall,
Grading: 2 Mid-Term Exams - 25% each; Final Exam - 30%; Homework
- 10%; Project - 5%; Attendance - 5%
Exam Dates: Exam I: Feb. 5; Exam II: Mar. 12; Final Exam: 10:30
- 12:30 (Thursday) April 12, 2007
Prerequisites: Math 205 and Math 206
In this first course, we study elementary methods of solving differential
equations which often arise in modeling physical phenomena in the real
world. We study the solutions analytically, numerically as well as graphi-
cally.
We will use DETools (CD comes with the book) to help analyze solutions
of differential equations.
Weekly homework will be assigned but only selected ones will be collected
and graded. Near the end of the semester, group projects will be assigned.
Syllabus
Week 1: 1.1, 1.2;
Week 2: 1.3, HW 1;
Week 3: 1.4 - 1.6, HW 2;
Week 4: 1.7, 1.8, HW 3;
Week 5: Exam I, 2.1;
Week 6: 2.2, 2.3, HW 4;
Winter Recess
Week 7: 3.1, 3.2, HW 5;
Week 8: 3.3, 3.4, HW 6;
Week 9: Exam II, 3.5;
Week 10: 3.6, 3.7, HW 7;
Week 11: 4.1, 4.2, HW 8;
Week 12: 5.1, 5.2, HW 9.