

Assignment 1, MATH 2066, Differential Equations

Due Date: Friday, September 24, 2010, 11:30 am in lockerette

Assignment format Include a title page on your assignment with name, course code, assignment number and date. Put your student number on the last page of your assignment, not on the title page. Staple pages in upper left corner. Do not submit assignments in folders or binders.

Assignment submission Submit your assignment in the appropriate lockerette outside the Mathematics and Computer Science area (near double doors , see list of courses on wall).

Chapter 1

- Exercises 1.1 (page 10) Problems 10 17 23 55
- Exercises 1.2 (page 17) Problems 10 11 29 31
- Exercises 1.3 (page 27) Problems 2 9 10 13 16 17

Chapter 2

- Exercises 2.1 (page 41) Problems 1 (a)* 10 (a)* 11 (b)* 22 26
- Exercises 2.2 (page 50) Problems 4 11 23 25 29 32

For the three starred problems use DFIELD to generate direction field and solution curves. Draw only the forward orbit in each case. Use x range from -5 to 5 and y range from -5 to 5. Submit a printout for each question showing the direction field and solution. Also note for question 11(b) that π can be entered as pi

Note Not all questions will be marked.

Note To access DFIELD and use it see links on the course homepage at

<http://www.cs.laurentian.ca/badams/m2066/index.html>

or go to

<http://math.rice.edu/~dfield/dfpp.html>