

Math 246 - A. Mellet - Fall 2018

Matlab project #1

**Due Monday September 17**

### **Introduction to Matlab:**

- **Tutoring:** Remember that you can get help with Matlab by taking advantage of the free Matlab tutoring offered by the math department. The schedule can be found here: <http://www-math.umd.edu/matlab-tutoring-schedule.html>
- **How/where to run Matlab:** You can run Matlab on the computers of various computer labs on campus (the math computer lab is located in room Math 0203). Alternatively, you can run MatLab remotely on your own computer through the Virtual Computer Lab at <https://eit.umd.edu/vcl>, or possibly install matlab on your own computer <https://terpware.umd.edu/>
- **What do you need to turn in/How your project should look:** You should complete the assignment by creating an "m-file", using individual cells in the m-file for each problem, and putting the problem number at the beginning of the cell as a comment (m-file are discussed in section 4.2 of the book). You can split up a multi-part problem into multiple cells, as long as you label each cell. Then you should use the "publish to html" option to create a nice looking output and then print the html file, which can be displayed by Matlab or opened with a web browser (see section 4.4 for how to "publish" the file and print the result).

Your answers should be presented in the order that the problems are assigned. If you use more than one sheet of paper, they should be stapled together. The top of the first page should include: your name, course and section number and the date the assignment is due.

### **Assignment:**

1. Read the textbook (*Differential Equations with Matlab*), Chapters 1-4
2. Do the following problems from Problem Set A (pages 49-52): 5, 7abd, 9, 10.