

## EML3041 Computational Methods

### What to Do In-Class Worksheet

Fall 2023

### Week Eight: October 9 – October 13

#### Chapters

- 05.06 Spline Interpolation
- 05.10 Length of Curves

#### Sequence of Work in Class for Tuesday

1. Lecture on cubic spline interpolation.
2. Do in-class handout questions by yourself and then with your group of 2. Revise solutions, if needed, and show your work.
3. Submit the asked question asked to be submitted at the end of the class

#### Sequence of Work in Class for Thursday

1. Introduction to Regression – Chapter 06
2. Do in-class handout questions by yourself and then with your group of 2. Revise solutions, if needed, and show your work.
3. Submit the asked question asked to be submitted at the end of the class

#### Sequence of Work in Class for Friday

1. In-class experiment on Runge's phenomena and length of curves.

#### What if I Finish the Work for the Day?

1. Solve the free response questions from all chapters 05.XX.
2. Solve the problem-set questions at the end of textbook chapters 05.01, 05.02, 05.05, 05.10.
3. Finish any leftover work from previous weeks.



The QR code is the link to the textbook – use it for reference and solving more problems if finished. Alternatively, use short link if you wish: <https://bit.ly/3RMpaAe>