Extra Homework (chapters 5 and 6)

Training before Midterm 2 (not graded)

Chapter 5: Series solutions

If you are not familiar with power series, read chapter 5.1 and make some exercises, e.g. 5.1.4, 5.1.5, 5.1.15, 5.1.24.

Then, you may consider Problems 5.2.1, 5.2.2, 5.2.3, 5.2.4 for training. Typical exam problems are 5.2.21, 5.3.10, 5.3.22.

Chapter 6: Using Laplace transform

Make sure you are able to compute the Laplace transform of usual functions, see for instance 6.1.5, 6.1.6, 6.1.7, 6.1.11, 6.1.15.