

Mathematica
Assignment 1
Math 102
Fall 2019

1. Follow the “*Mathematica* Files” link on the course website, and download the “Commands Template” file.
2. Open the “Commands Template” file, and evaluate each command to understand what it does.
3. Go to the *Mathematica* “File” menu, and select “New” and then “Notebook” (*Mathematica* files are called “notebooks”).
4. Copy any commands from the “Commands Template” file that you need to do the chapter 3 review exercises 1 – 23 odd, and paste them into the new notebook that you just opened.
5. Edit the copied and pasted commands to do the required computations. Use a new command for each exercise.
6. To remove unwanted material, select the corresponding bracket on the right side of the notebook, and press the delete key.
7. Save your notebook.
8. Do the same chapter 3 review exercises by hand. If an answer that you arrive at by hand does not match the corresponding *Mathematica* output, then either show the algebra necessary to transform your response into that given by the computer, or correct your *Mathematica* code. Ask for help if you can’t reconcile your computations.
9. When your computations by hand and by computer match, print your *Mathematica* notebook, and turn it in together with your work by hand.