

The Maple Lab for Math-141: An Introduction

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Note

If you took Math-141 last semester, this will serve as a review for you.

Welcome

Welcome to the computer laboratories and classrooms in the Department of Mathematics at the University of South Carolina. If you are reading this as you are waiting for your lab session to begin, introduce yourself to another student in the lab and wait for your TA to begin the lab.

Instructions

The purpose of this week's lab is for you to become familiar with the network and Maple 2016. You will learn how to login and logout of the network and how to access Maple and the Internet. Once this is complete, you will begin to learn about Maple by working through an interactive Maple worksheet.

A. Login and Logout

- When you are seated at a computer on the network, begin the login process by pressing **Ctrl-Alt-Delete**. This will open a window in which you will be asked to enter your username and password. You should log on using your USC network username and password. (This is the same username/password that you use to access your university email.)
- If you have trouble logging onto the network, you will need to look on with someone else for this lab. Before next week's lab, please visit LC 415 for assistance.
- Once you are logged in, take a look at your Windows desktop. You should see several icons, including ones for Internet Explorer and Maple 2016.
- To logout, click **Start** button or press **Ctrl-Alt-Delete**. Click on **Log Off** ... confirm that you want to logout by pressing the button labeled **Log Off**. **Do not turn off the computer**. Prior to leaving the computer, visually verify that it is ready for the next user to login.

B. First Look at Maple

- If you are not already logged in to the computer, please do so now. (See **Part A**.)
- Locate and double click the Maple 2016 icon on the desktop. The following set ups may already been done on your computer.
- When Maple starts up, if you see the default home page, one with many icons, click on "New Worksheet" icon. If your Maple starts with a blank worksheet, skip this step.
- You may want to have the Maple window enlarged to fill the full size of the monitor. To do this, click on the middle icon in the upper left corner of the border of the Maple window.

Maple Preferences

Our first task is to set up (or verify) the interface of Maple to our standard. Each user must configure Maple upon initial entry. **You must set your preferences as specified below**. Otherwise, you will not be able to follow the labs, and the information the TA gives you may not work properly. You should only have to do this the first time you use Maple using your normal login on any lab computer. Of course, you need to do the same initial setups on other computers (such as on your laptop).

- Pull down the **Tools** menu and choose **Options...**
- Click the **Display** tab. Change the settings if needed to show:

Input display: Maple Notation
Output display: 2-D Math Notation

- Click the **Interface** tab. Change the settings if needed to show:
Default format for new worksheets: Worksheet
Open worksheet at startup: New, blank
- Click **Apply Globally** button on the bottom.
- The change will take effect next time you start Maple. So exit your maple session now (under the **File** menu, select **Exit**).

Accessing the Internet and Lab Materials

- Internet Explorer is the standard browser provided in our computer labs. An icon for Internet Explorer should be on your desktop. Double click this icon to launch the browser.
- Open the Lab homepage (<http://people.math.sc.edu/calclab/141L-S17>). Add this page to your list of favorite websites.
- The lab homepage contains links to all lab materials such as the Lab Syllabus and additional resources
- From the Lab homepage, click on the **Suggested Lab Schedule/Assignments**. This page contains the weekly lab assignments. For **Lab 1**, you will see links to this handout, the **New User's Tour**, this week's assignment, and related sections from textbooks. The page will be updated weekly.

New User's Tour

- From the Lab Schedule/Assignments page, double click on the **New User's Tour**. Your TA will walk you through this interactive introduction to Maple.
- Note that lines that begin with `>` are for executable Maple commands. To execute, such a line must end with a semicolon (`;`). Place the cursor anywhere on the line and press Enter. The result will appear, in dark blue, immediately below the command. Other lines are for normal text such as instructions and comments.
- If you want to be able to return to anything you have worked on in Maple you must save your work as a Maple worksheet.
- When you have finished (or the lab session ends), please exit your Maple session and to logout of the network. Do not forget to save useful work.

Assignment

Complete the **New User's Tour** if you did not finish in the Lab and your lab instructor may give other assignment for each section.