CoCalc Basics

1. Visit http://cloud.sagemath.com. You will see a screen where you can create an account:

Fill out the form, using a real e-mail address, and you have an account.

**IMPORTANT:** Please use your SFA email address.
2. You will be taken to a screen where you see a list of projects (currently empty):

Click “New project.” Give it a title and description.

3. Back in the projects list, click on your project name:

4. Next, add a new worksheet: click “Create or upload files:”
   Give it a name (like “Sage Demo”) and choose “Jupyter Notebook:”
   If the worksheet asks for a kernel, indicate “SageMath:”
5. Now we're in a Jupyter notebook; your screen should look like this:

Type “2+2” and press Shift-Return. (That is, hold down the Shift key and press Return.) Sage should compute “4” for you:

6. Okay, not so impressive so far. The worksheet has some menus to help you get started with Sage syntax. Let's try graphing a function. From the Snippets menu select “Plotting-2D-Basic Plot” and insert the example.

You should see a plot of the function. Play around with the function, and press shift-return to get a new plot.
Sage can also do 3D plotting; see the screenshot.

Final Notes

- SageMathCloud works best in Google Chrome. Safari also works but there are issues with Firefox. Avoid Internet Explorer.

- Try some other computations and hand in a printout of your Jupyter notebook. This will be your “first” Sage project for MTH 337.