

**Instructor:** Michael Lerner, Dennis 221, Phone: 727-LERNERM

### Assignment 1, Due Monday

The main goal of this part of the class is to get familiar with the mechanics of working with series and complex numbers. So, this assignment includes many short problems. The selection below is a good one to get you acquainted with the techniques. The starred problems are the ones you're required to turn in (there are ten of them).

§1.10: 1\*, 2\*, 3, 4, 5

§1.12: 1\*

§1.13: 5ab, 7ab\*, 9ab, 10ab, 20\*

§1.14: 3\*

§1.15: 33\*

§2.4: 1\*, 2, 3\*, 11\*, 12, 13

Additionally, we'll be using iPython Notebooks for several assignments in the class.

- Work through the first three Software Carpentry Python Lessons:  
<http://software-carpentry.org/v5/novice/python/index.html>
- Use a `for` loop to evaluate the first 4 partial sums of one of the series from the previous problems.