Assignment Set 9
Due May 16th

9.1 Exercise 5.11 from the book. Also reproduce Figure 5.13; the analytic solution for an infinite wire is $B = \mu_0 I/(2\pi r)$.

9.2 Exercise E.2 from the book. See also equations E.1 and E.2.

9.3 Exercise E.7 from the book. Plot your error $\epsilon$ as a function of $N_{\text{total}}$ and compare to the curve: $\epsilon \propto 1/\sqrt{N_{\text{total}}}$. 
Format Requirements for Assignments

For every code you write – no matter how small – as a class assignment:

- Include a multiple-line comment at the top with the following information:
  - The name of the assignment
  - Your name
  - The date you turned in the code

- Insert comments throughout the code: just before every main code element, like a function, a conditional statement, a loop, a set of variable assignments, or print statements etc.

- Turn in a print-out of the code along with print-outs of all possible program outputs both in data and graph form, whenever applicable. Also turn in your answers asked as part of the assignments.

- E-mail me all the source-code files. In the subject line remember to include (i) your name, (ii) the name or number of the exercise.