Physics 112—General Physics II: Electricity, Magnetism, and Optics
Homework Assignment #1
Due Friday, January 31, 2014, 11 a.m.

This assignment has 3 basic parts: Enroll in Mastering Physics, do the on-line “HW #1” assignment, and do the pencil-and-paper problem below.

Enroll in Mastering Physics.
First, you will need a “Student Access Kit”. If you bought your text at Lafayette’s bookstore, you should have received the kit with the text. If you got a 2-semester kit last semester, you should be able to use it again; no further purchase is necessary. If you do not have a kit, you can purchase one on-line at http://www.masteringphysics.com. Be sure to click on the right textbook—we are using Knight’s College Physics, second edition. Once you have your kit, you can register online at http://www.masteringphysics.com. When asked to provide a College ID, please use your Lafayette e-mail ID, e.g. something like smithj. Do not use your “L-number.” Do not include the @lafayette.edu portion of your ID.

One you have registered, you can log in at the Mastering Physics web site and enroll yourself in this course. The course ID is LafayettePhys112Spring2014.

Do “HW #1.”
The first six problems in this assignment are for practice (i.e. they don’t count) but you should try them. They are intended to help introduce you to the system. You probably did these same problems last semester, but a quick review may still be helpful. You will get more out of the system and ultimately save yourself time and avoid frustration if you invest a little time now.

The last seven problems are the graded physics problems for this week. They count, so don’t skip them.

Do the Pencil-and-Paper problems.
Do the following problems: Chapter 20: #22 (10 pts.), #23 (10 pts.), and #46 (50 pts.)

Please write neatly and show your work clearly. I need to be able to follow your reasoning. Staple your pages together.

Grading.
The text rates problem difficulties as “I”, “II”, “III,” etc. These will typically be assigned 10, 20, and 30 points respectively. Your total score for each week will be the sum of the on-line and pencil-and-paper scores divided by the total number of possible points.

Academic Honesty
You may use, without proof, any results from your text by simply quoting the result and giving the reference (e.g. equation number or page number). You should understand how that result was obtained, but you need not transcribe the derivation.

If you get bogged down with any of the problems, do not hesitate to discuss them with me or with a fellow student. However, if you discuss a problem with anyone (besides me) you should acknowledge that collaboration. Please see the Academic Honesty policy for more information about appropriate and inappropriate collaboration.