

PHYS 122: Special Homework #07

January 26, 2009

**Homework #07 is due in Box outside of Rock 207:
5:00 PM Sharp, WEDNESDAY, March 18, 2009**

This is a special homework. It is due on or before March 18, 2009 just after Spring Break.

Invent a problem in introductory Electricity and Magnetism and then solve it.

More specifically: Consider some topic in the course that you have considered thus far, and try to invent a good homework or exam problem to solve based on this. You need to provide the following:

1. You need to provide a concisely stated and properly formatted problem. A typeset problem is best (MS-Word or Latex, etc.) but a hand-written statement of the problem is acceptable provided that the statement is very clear, clean, and neat.
 - Include a helpful diagram or figure for your problem, if you can.
 - Your problem should be neither too long nor too short.
 - Your problem should be neither too easy nor too difficult.
2. You need to provide a careful and accurate solution to your problem. This solution may be hand-written. Your solution should be complete and tutorial so that it might serve as a posted solution for other students to see.
3. You need to provide a short paragraph that explains how you came up with your problem. Most importantly the paragraph should describe which *central physics concept(s) is/are addressed by your problem*. Your paragraph should be neither too short nor too long.

Be sure that your name is written clearly on each of the three parts you are submitting for this assignment: (1) your problem, (2) your solution, and (3) your explanatory paragraph.

This homework may be submitted any time to Mr. Covault before March 18th. Be very sure to put on the top of your work the words: “Special Homework #07”.