

Dr. Pete's useful stuff – Classical and Modern Physics III

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Study Guide for Test 2 – Fall 2016

The test will be a **take-home exam** with **5 long answer problems** in a similar style to the textbook homework problems and the problems on Test 1. The questions will be drawn from *all* the material covered in class with an emphasis on the material covered in the homework problems and problems worked in class. The test will cover the material in Cummings chapters 24-27. **Note:** There will be a **Gauss' Law** problem.

In preparation for **Test 2**, I suggest the following:

1. *Review* the **ZEN AND THE ART OF DOING PHYSICS PROBLEMS** sheet.
2. *Review* the material in your **class notes** and **homework**.
3. *Prepare* your **cheat sheet** (to be handed in at the end of the test.) This should be a **single side** of a *handwritten* sheet of letter-sized paper. *Include* all the equations (and diagrams) that you think you might need to start the problems. Remember there are **partial credit** points just for writing the exact same formulas on the Test. Your cheat should *not* include any worked-out homework problems and should be submitted on Canvas by 6:00 am Thursday.
4. *Review* the text. You should already have read the relevant chapters (24 through 27) of the text.

Test taking tips

1. *Take your time* on the test. You will have plenty of time to work the problems. Take the time to *write down every step* in your answer. That way you'll make fewer mistakes and will be less likely to get stuck. You'll also get partial credit! 😊.
2. **Time management**. If you get stuck on a question, move on to the next one. Remember partial credit is available just for translating the words into pictures and symbols.
3. **Algebra with numbers** will earn *zero* partial credit!

Please note that I will be dropping the lowest test this semester.
If you have any questions, please let me know.

Good luck for Test 2!

-pHn

