Homework Submission, Physics 105

**How to get the homework problems and data:**

- The homework problems for this course are on following pages in this packet. Problems 1-1 through 1-9 belong to assignment 1, problems 2-1 through 2-8 belong to assignment 2, etc.
- Each of you will do the problems using different data, resulting in answers that are different from those of other students. Blanks are left in the problems where you can write your data. Your data for the entire semester is available over the internet and can be printed out.
- To get your individual data, go to our course home page: [http://www.physics.byu.edu/faculty/magleby/physics105.aspx](http://www.physics.byu.edu/faculty/magleby/physics105.aspx). Then follow the links to “Online Homework” and then “Homework Data Sheet”.
- The homework problems can also be found on Blackboard (Route Y), but your personal data must still be retrieved through the class webpage.

**Homework grading:**

- Your homework answers will be submitted by computer for the correct answer and will be graded by hand for presentation.
- Each computer graded answer is worth either five or two possible points.
  - Example: Homework 1-1 requires two work out type answers: a and b. Each of these answers is worth 5 points, for a total of 10 possible points for Problem 1 from Homework #1.
  - Example: Occasionally you may be asked a homework question that requires a Boolean type answer: up/down, yes/no, front/back, left/right, etc. These problems are only worth two points each and can only be submitted once. (If you miss it the first time, there is no question what the correct answer is!)
- Each hand-graded problem is worth 5 points. A sample of a homework solution is included in the packet and is posted in the TA lab. There will one point each awarded for:
  - General neatness.
  - Short statement of problem.
  - Listing of known variables.
  - Listing of pertinent equations.
  - Symbolic solution.
- The lowest 2 homework scores will be dropped. Note that there are technically two homework assignments due each week.
- The homework to be graded by hand is due at the beginning of the following lecture. This is the day after the computer due date for that homework. *Your homework will not be returned to you*, so make a copy if you would like to keep it.
- You have three tries to get the correct answer on the computer submission portion of your homework, unless it is Boolean (See above). After each submission, the computer will immediately tell you which of the problems were correct, which were wrong, and will give you the correct answer and a new data set to try again.
- On the first submission, submit all of the answers for all of the problems, since questions left blank on the first submission will be graded as incorrect. Your homework will be
immediately graded and the computer will tell you which, if any, of the problems you missed.

- Correct answers need not be redone, unless they are part of a multi-part question.
- If you miss any part of a multi-part question the whole question will be marked wrong. You will be given the correct answers and another (different) data set to try again.
- Since you have immediate feedback and three chances to get it right, it is a good idea to allow enough time to resubmit homework if necessary.
- After three tries the system closes that homework assignment for you and no other attempts will be accepted.
- After the cutoff date for that unit the system closes that homework assignment for the whole class and no other attempts will be accepted.
- If a correct solution is entered within three tries and before the due date, full credit of either five or two points per answer is awarded. If the correct solution is entered into the system after the due date but before the unit closing date, half credit will be awarded.
- Please be aware that this homework program has been used for many years, and by thousands of students. All of the grading bugs have been worked out. Therefore, if your answer is wrong, it is almost certainly “user error” and not a computer error.
- On the other hand, there have occasionally been bugs in the timing of the homework submission system. If your homework is marked late, but you submitted before the deadline, please email me ASAP: sam25@physics.byu.edu.
- Please note that the system records both your exact keystrokes and time of submission.

**Format of homework submission:**

- First work the problems on paper using the data set obtained with your CID number on the class website.
- At the end of the homework problem set there is a range given for each answer, along with the units that the answer should be given in. Check to make sure your answers are within the range.
- These numbers also indicate the accuracy to which you must calculate the answer.
  - Example: “40, 800 J means that your answer will lie between 40 and 800 Joules and that the answer must be given to the nearest 1 Joule.
- Example: “15.0, 60.0 N” means that the answer must be given to the nearest 0.1 Newton, and the correct answer is between 15 and 16 Newtons.
  - In some cases, the accuracy is indicated explicitly. For example, “32000, 39000 ± 100 km” means the answer must be given to the nearest 100 km.
- Do not put units on your answer when you submit it to the computer.
- If a very large or very small value needs to be written in scientific notation, use exponential notation.
  - Example: an answer of $3.00 \times 10^8$ would be written 3.00e8, and $1.6 \times 10^{-19}$ would be written 1.6e-19. The ‘e’ must be lower case, and you should not put any spaces before or after the dash.
- Do not put any spaces in the number or any commas.
  - Example: You may have to submit an answer like 120,000 but don’t use commas. The correct form for submission is 120000.
The computer will accept more digits than required. If there is some question about how to best round off an answer, try entering more digits and letting the computer do the rounding for you. **Caution! This trick does not work unless the answer has a decimal in it, and you must enter in more places than required!** The computer will not round to the nearest ones, tens, hundreds or thousands—only tenths, hundredths, etc.