University of California, Santa Barbara
Department of Physics
Physics 2 - Spring 1995

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Problem Set Guidelines

1. Write your **Name**, the name of your professor, **NELSON**, the name of your **TA**, and the date and time of your discussion section in very clear lettering. Physics 2 TAs are: Anton Eppich, Amalie Frischknecht, Michael Wanke, Abigail Davis.

2. Doing these things both makes it easier to work the problems, and makes it easier for the grader to give you full credit:
   (a) Draw a neat diagram, from which the equations can be easily deduced.
   (b) Keep careful track of known quantities by making a table at the beginning of the problem.
   (c) Keep careful track of how many unknowns there are, and how many equations you have that can be used to solve for the unknowns. If you introduce a principle such as 'conservation of angular momentum' to get a new equation, think for a minute and decide whether the principle really applies in this case (is the net external torque really zero?).
   (d) Usually, solve in terms of symbols first, and then plug in the numbers.
   (e) When you get the answer, think about it, and decide whether it makes sense. If the answer is much bigger, or much smaller, than you might have guessed, check your work.
   (f) Check the units carefully.

3. If you don't do these things, you may lose credit:
   (a) Write up the problems **in the order assigned**, and staple all pages together.
   (b) Number the pages; for example, if there are 10 pages, number the first 1/10 (for 1 out of 10), the second 2/10, etc, through 10/10.
   (c) Distinguish vectors from scalars, and carefully declare what directions are + and -.
   (d) Use the proper number of significant figures.
   (e) Underline significant intermediate results, and box the final result: both the algebraic formula used, and the numerical result.
   (f) Be neat!

4. **Important Points**
   (a) Write-ups due in the boxes outside 1610 Broida by **5pm on Fridays**. Late work gets 0 credit.
   (b) Work will be returned by the end of the Tuesday lecture.
   (c) You can work together, **but you must do the write-ups independently**.
   (d) Solutions will be in the RBR of Davidson Library, and on the second floor of Broida in the Glass case. They will go up on Tuesdays.
   (e) Problems will be posted early on the WWW and in the glass case. Normal assignment will be in the Tuesday lecture.