

## General Physics I - Homework Checklist

Name \_\_\_\_\_

Please complete and staple this sheet on top of your homework assignment.

Assignment number \_\_\_\_\_

The next two assignments (HW 18 & HW19) must have this sheet attached to the front. These assignments will not be accepted without this checklist.

- \_\_\_\_ Name, course number, due date, assignment number on upper right corner of each page.
- \_\_\_\_ Questions/problems clearly labeled in left margin in requested format (*i.e.*, Q 2-5, P 4-34).
- \_\_\_\_ Staple in upper left-hand corner.
- \_\_\_\_ Only one side of the page of 8.5" × 11" loose-leaf paper used (please, no pages ripped from spiral-bounds).
- \_\_\_\_ Handwriting is legible and work is well-organized.
- \_\_\_\_ Appropriate variable names (see textbook) are used for all physical quantities (*e.g.*,  $m$  for mass,  $v$  for velocity).
- \_\_\_\_ All physical quantities should include correct units.
- \_\_\_\_ Insure that the work you turn in is your own and not copied from a classmate, website, or pirated solution manual.

For all questions, you should include ...

- \_\_\_\_ a brief summary of the question (so you can understand it without the text).
- \_\_\_\_ a reproduction of any relevant figures from the text and/or your own relevant sketches.
- \_\_\_\_ a statement of the overlying principle behind the problem (your starting point) and any associated basic equations.
- \_\_\_\_ the use of appropriate variable names for all physical quantities.
- \_\_\_\_ clear, well-labeled sketches, free-body diagrams, vector diagrams, before/after sketches (when applicable).
- \_\_\_\_ answers to the questions with an explanation as to the reasoning behind your responses. Answers without any explanation will be given zero credit.

For all problems, you should include ...

- \_\_\_\_ a brief summary of the problem (so you can understand it without the text).
- \_\_\_\_ a statement of the overlying principle behind the problem (your starting point) and any associated equations.
- \_\_\_\_ a list of all given (known) quantities in complete mathematical statements (including units and any conversions).
- \_\_\_\_ the use of appropriate variable names for all physical quantities.
- \_\_\_\_ a reproduction of any relevant figures from the text.
- \_\_\_\_ clear, well-labeled sketches, free-body diagrams, vector diagrams, before/after sketches (when applicable).
- \_\_\_\_ a clear definition of a coordinate system, if applicable.
- \_\_\_\_ a series of statements on how you are solving the problem (narrative).
- \_\_\_\_ any suitable graphs generated from a spreadsheet, Maple, or MATLAB.
- \_\_\_\_ a copy of any Maple or MATLAB (or other) code used to solve any aspect of the problem.
- \_\_\_\_ any blank formulae that you are using for the solution
- \_\_\_\_ complete and valid mathematical and algebraic statements in a logical order.
- \_\_\_\_ final result/answer boxed or circled expressed as a complete mathematical statement with a reasonable number of significant figures and appropriate units.
- \_\_\_\_ a brief reflection on your final result (Does it make sense? What does it mean?).

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