

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 19 & HW20) 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 or data-mined from the web.

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 question.
- ___ 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 reflection on your final result (Does it make sense? What does it mean?).