

Physics Homework Three-Phase Checklist

Physics Homework Problem-Solving Checklist

Use this checklist every time you solve a physics problem to stay organized, avoid common mistakes, and improve accuracy.

Phase 1: Understand the Problem

Before solving anything, make sure you fully understand the question.

- ✓ Read the question carefully at least twice.
 - ✓ Identify exactly what the problem is asking you to find.
 - ✓ Highlight or list all given values.
 - ✓ Identify the relevant physics topic (motion, force, energy, electricity, etc.).
 - ✓ Convert units if necessary before starting calculations.
 - ✓ Draw a quick diagram if the problem involves motion, direction, or forces.
 - ✓ Identify the known variables and the unknown variable.
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Phase 2: Solve the Problem

Now apply the correct physics principles and calculations.

- ✓ Write down the correct formula or equation.
 - ✓ Substitute the known values into the formula.
 - ✓ Ensure all units are consistent.
 - ✓ Solve the equation step-by-step.
 - ✓ Show intermediate steps clearly.
 - ✓ Use your calculator carefully and double-check entries.
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Phase 3: Review Your Answer

Always verify your solution before moving to the next question.

- ✓ Check the final units.
- ✓ Confirm that the answer is written clearly.
- ✓ Ask whether the result makes physical sense.
- ✓ Review calculations for arithmetic mistakes.
- ✓ Recalculate if the result seems unrealistic.
- ✓ Compare the answer with expected magnitude if possible.

my perfect words