

From: Olympiads School
To: Grade 12 Physics students
Subject: Notice for in-class final exam

Please note that there will be an in-class final exam on the last class. The exam consists of two sections: short-answers, problem solving, and multiple choice questions. Unlike in the midterm test, there are no bonus questions. You will have 90 minutes to complete the test. If you paid attention to class and did your homework (instead of just copying our answers), then you should have more than enough time. The short-answer and multiple-choice questions are mostly conceptual, but the problem-solving questions will require careful calculations. Here are some instructions and helpful hints:

1. This is an open-book exam; you can use any course material from Olympiads. However, you will not be allowed to access other books or online resources.
2. The equation sheet that you received on the first day is your friend. Make sure you *understand* what those equations actually mean. Blindly apply an equation, and things will go horribly wrong very quickly.
3. Bring a scientific calculator in working order...and think about whether the answer you get from that calculator actually makes any sense. If the orbital speed of a planet is 100x the speed of light, you made a mistake.
4. Like the midterm test, *read the instructions* before working on the problems. There is a good chance that you will find the information useful.
5. For vector quantities, you *must* answer in the format:

magnitude [direction]

6. Please show *all* your work. If you made a mistake, cross out the incorrect section(s) rather than erasing it, and complete your work on the side. There is no shame in that. Attach extra sheets of paper if necessary.
7. Please write neatly. Physics teachers have many superpowers, but they do not include deciphering poor handwriting or mindreading. It is very difficult to award part marks if we have no idea what you wrote.
8. Put a box around your answer for clarity.
9. Your teacher will be walking around the classroom to assist you during the exam, and answer your questions, but if your question is "is my answer correct?" then, sadly, there is nothing that we can do to help.

If you have any additional questions about the exam, please contact your teacher directly.

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