

# Physics 141

## Problem Set 9

Due Wednesday, Dec 3 (hand in in class).

Monday, Nov. 24, 2008

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### Reading for Monday, Wed Dec 3:

**K&K:** Chapter 9 **Central Force Motion** Sections 9.1-9.3. You may need to read other parts selectively to get hints on the problems, but I find it's strangely opaque. You are welcome to look for other books (e.g. Marion, Ohanian,...)

**Feynman** Chapters 18, 19, and 20. This may help in moments of inertia after Thanksgiving.

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**Study Groups** You are **strongly** encouraged to discuss the problems in a study group to save time. However, the work you hand in has to be your own- you must **NEVER** copy anybody else's work! (grounds for severing your connection).

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**Problem Solving:** Please always work in symbols and only plug numbers in at the end where and if required. In general you should start by drawing a careful picture, with labelled axes. This is a problem set that will be much easier if you talk through each problem with your study group before starting (draw a picture).

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1. K&K Chapter 9, Problem 9.1
  2. K&K Chapter 9, Problem 9.2
  3. K&K Chapter 9, Problem 9.4
  4. K&K Chapter 9, Problem 9.7
  5. K&K Chapter 9, Problem 9.9
  6. K&K Chapter 9, Problem 9.12
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