

# Physics 141

## Problem Set 4

Due Monday, Oct. 27 (hand in in class).

Monday, Oct. 20, 2008  
H. J. Frisch; 702-7479

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**General:** Organization, Web page, Labs, Syllabus: See the (yellow) P141 'Poop Sheet'.  
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**Makeup Lecture:** There will be a 'makeup' lecture Tuesday aft. at the normal discussion session time, but in Room 106 (TBC).  
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**Reading:** K&K: Chapter 2, Sections 2.1-2.4, but stop before Example 2.5 on page 75 (we will do polar coordinates and circular motion later- K&K lump all kinds of things together much too glibly- there are too many major topics in this chapter (e.g. circular motion, centripetal force, harmonic oscillator, friction, constraints, gravity,...!).  
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**Study Groups** You are strongly encouraged to discuss the problems in a study group. 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. It usually pays to start by drawing a careful picture, if appropriate.  
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1. K&K, Problem 2.1
  2. K&K, Problem 2.2. In addition, find the acceleration of both blocks.
  3. K&K, Problem 2.5
  4. K&K, Problem 2.13
  5. K&K, Problem 2.14
  6. K&K, Problem 2.16
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