

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
Department of Physics

Physics 8.01X

Fall Term 2002

## PROBLEM SET 3

**Handed out: September 20**

**Due: September 27 at 4 pm in**

Please write your name, subject, **recitation number**, and the name of the recitation instructor on the top right corner of the first page of your homework solutions. The solutions should be placed in the appropriate box

Note that sometimes you will be able to check your answer at the back of the book. You must always show your work for credit.

**Problem 1:** Young and Freedman 3-50.

**Problem 2:** Young and Freedman 4-22.

**Problem 3:** Young and Freedman 5-86.

**Problem 4:** Young and Freedman 5-93. (For this one you must justify your answers clearly for credit.)