

# Massachusetts Institute of Technology

Physics 8.09 Fall 2006

Homework 4

due Wednesday, October 11, 2005 at 12:30 PM

## Suggested Reading

Goldstein Sections 8.1 and 8.2

## Problems

### Problem 4.1 (25 pts)

Goldstein, Problem 1, Chapter 8, Page 362

### Problem 4.2 (25 pts)

Goldstein, Problem 13, Chapter 8, Page 363

### Problem 4.3 (25 pts)

Goldstein, Problem 19, Chapter 8, Page 364

### Problem 4.4 (25 pts)

Goldstein, Problem 21, Chapter 8, Page 365