PHY 140Y FOUNDATIONS OF PHYSICS 1998-99

Problem Set #4

HANDED OUT: Friday, November 20, 1998 (in class).

DUE: 1:00 PM, Thursday, December 3, 1998 (in class).

Late penalty = 5 marks/day, up to 1 week, after which it will not be accepted.

NOTES: Please give your name, student number, TA's name, and tutorial section.

Answer all questions.

50% will be awarded for making a reasonable attempt at all questions. 50% will be awarded for the answers to a subset of the questions. Marks will given for workings and units, as well as for final answers.

QUESTIONS:

- 1. Chapter 8, Problem 18, Page 197
- 2. Chapter 8, Problem 42, Page 198
- 3. Chapter 8, Problem 52, Page 199
- 4. Chapter 8, Problem 60, Page 200
- 5. Chapter 8, Problem 68, Page 201
- 6. Chapter 38, Problem 2, Page 1025
- 7. Chapter 38, Problem 10, Page 1025
- 8. Chapter 38, Problem 16, Page 1026
- 9(a). Chapter 38, Problem 22, Page 1026
- 9(b). Chapter 38, Problem 23, Page 1026
- 9(c). Chapter 38, Problem 24, Page 1026
- 10. Chapter 38, Problem 54, Page 1028