
PHY 140Y – FOUNDATIONS OF PHYSICS
1999-2000
Problem Set #3

HANDED OUT: Friday, November 5, 1999 (in class).

DUE: **1:00 PM, Thursday, November 18, 1999 (in class).**
Late penalty = 5 marks/day (which also applies to weekend days!) until 1:00 PM, Monday, November 22, after which it will not be accepted (as solutions will then be available in tutorials and on the WWW).

NOTES: Answer all questions. Total marks = 100.
50% will be awarded for making a reasonable attempt at all questions.
50% will be awarded for the answers to a selected subset of the questions.
Marks will given for workings and units, as well as for final answers.

QUESTIONS:
(from *Physics with Modern Physics*, Third Edition, by Wolfson and Pasachoff)

1. Chapter 7, Problems 29 and 30, Page 183
 2. Chapter 7, Problem 86, Page 186
 3. Chapter 8, Problems 20 and 50, Pages 206 and 209
 4. Chapter 8, Problem 76, Page 211. Also sketch the potential energy curve.
 5. Chapter 8, Problem 84, Page 212
 6. Chapter 15, Problem 46, Page 388
 7. Chapter 15, Problem 64, Page 389
 8. Chapter 15, Problem 66, Page 389. Also sketch the potential energy curve.
 9. Chapter 15, Problem 70, Page 390
 10. Chapter 15, Problem 72, Page 390
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