

AP PHYSICS 2007 - 2008

CHAPTER PROBLEMS

The more you prepare, the better you become!

A Note to the Student: It is recommended that you complete approximately 5-7 problems per night and ask questions over the problems you find difficult. If you do not follow the recommendation above, it will become too overwhelming to handle at the last minute. Conceptual questions for each chapter will be announced on a weekly basis as needed.

All questions and problems must be completed neatly in a composition notebook. Points will be deducted for messy notebooks. The composition notebook will be collected every test day.

Answers are provided for the odd problems in the back of the book and I provide answers to the even answers. Zero credit is awarded if you do not show your work in your homework notebook.

This book will be very useful in your college physics course. The main text for this course will be **Serway's College Physics**, and **Giancoli's Physics**, **Hewitt's Conceptual Physics** and other physics texts will be used as a reference text.

Chapter	Problems	Problems	Chapter
1 (6)	1, 2, 6, 14, 29, 47 for #29 use 1 head = 300 pounds for #44 use 1 can = 0.5 ounces	Students pick – 6 problems from 14.3, 14.7, 14.9, and 14.10. You must do at least one from each section	14 (6)
2 (15)	1, 2, 3, 4, 7*, 8*, 9, 12, 16, 18*, 20, 25, 36*, 39*, 42*	1, 2, 3, 5, 7, 9*, 10*, 16, 23, 29, 31*, 45, 46, 47, 48, 53	15 (16)
3 (13)	1, 2, 5, 7, 9, 10, 18, 19, 20*, 22, 23, 25, 48	1, 2, 4, 5, 16, 19*, 24*, 25, 28, 29, 30, 33, 37, 38, 41, 43, 46, 52, 57	16 (19)
4 (19)	1, 3, 4, 6, 7, 9, 11, 14, 15, 17, 22, 23, 28*, 30, 32, 41, 61, 62, 72*	3, 5, 13, 14, 16, 17, 22, 26, 29, 39, 41, 42, 43, 50, 51	17 (15)
5 (12)	1, 2, 3, 7*, 11, 14*, 23*, 26*, 29*, 31, 33*, 45	1, 2, 3, 9, 15, 17, 37, 38, 39, 43, 45, 55	18 (12)
6 (8)	1, 3, 5*, 7*, 8, 15, 17*, 23	1, 2, 5, 7, 8, 14, 17, 21, 24, 33, 35, 45, 46, 48, 55	19 (15)
7 (8)	1, 17, 29, 30, 31, 36*, 39*, 41 #29a) $a_c = 1.58\text{m/s}^2$	1, 2, 3, 5, 11, 19, 31, 32, 33, 48 From chapter 21 only #42	20-21 (11)
8 (7)	1, 4, 8, 9*, 10*, 14*, 15*	2, 4, 7, 8, 9, 10, 14, 19, 24, 36, 37	22 (11)
9 (9)	19, 20, 21, 34, 36, 46, 47, 52, 55	1, 6, 7, 9, 10, 15, 18, 27, 31, 32, 35, 45, plus additional worksheets	23 (12+)
10 (10)	11, 12, 14, 23, 25, 30, 40, 46*, 47*, 51	1, 2, 3, 6, 8, 9, 10 plus additional worksheets	24 (7+)
11 (10)	1, 2, 3, 8, 13, 14*, 20*, 23, 24, 29	2, 14, 16	27 (3)
12 (15)	1, 3, 4, 6, 10, 11, 12, 17, 20, 25, 26, 29, 31, 40, 42	TBA	28 (TBA)
13 (17)	1, 2, 3, 4, 6, 8*, 21, 23, 25, 27, 34, 36, 39, 41, 43, 47, 49	36, 37, 42, 50, 51	29 (5)

NB: Numbers marked with an asterisk (*) are challenging problems. They will require a little more thought to arrive at the final answer. Do not give up too quickly, embrace the challenge;-)