

PHYSICS 5A – HOMEWORK SET 9

Due Wednesday, 11/20/02. Ten points per problem. Answers to the odd-numbered exercises are in the back of the book.

Reading: Young and Freedman Chapter 11, sections 11.1-11.4, Chapter 12, sections 12.1-12.3.

- 1.) Problem 11.2 (Answer: 0.351 m)
- 2.) Problem 11.6 (Answer: 2.40 m)
- 3.) Problem 11.11
- 4.) Problem 11.14 [Answer: a) $T = 625 \text{ N}$; b) 500N (horiz.); 75 N (vertical)]
- 5.) Problem 11.47
- 6.) Problem 11.61
- 7.) Problem 12.6 (Answer to part a): $-2.32 \times 10^{-11} \text{ N}$)
- 8.) Problem 12.17
- 9.) Problem 12.41