

Physics 263: Problem Set #5

These problems are due at the end of the day on Friday, May 1.

1. Morin 11.39 (Twice simultaneous) p. 558
2. Morin 12.5 (Threshold energy) p. 611
3. Morin 12.33 (Higgs production) p. 617
4. Morin 12.34 (Maximum energy) p. 617
5. Morin 1.7 (Two masses, one swinging) p. 21 (To be done in the Wednesday session; just print out the Mathematica cells you create.)
6. Morin 4.17 (Effective spring constant) p. 123
7. Morin 4.27 (Another maximum speed) p. 125
8. (BONUS) Morin 14.14 (Both points of view) p. 663
9. Shankar, problem 5.3.2 pg. 97
10. Shankar, problem 5.3.3 pg. 97
11. Shankar, problem 5.3.5 pg. 98
12. Shankar, problem 5.3.6 pg. 98