

Physics 262: Problem Set #4

These problems are due by the end of the day on Friday, Jan 27 in the graders' box.

NOTE: For each problem, your solution should begin with a brief statement of the problem, i.e. a description of the setup, including a list of the inputs and the goal.

1. BTM 8.2.1, 8.2.2 and 8.2.3 p. 213-4.
2. Morin 8.49 (Measuring g) p. 342.
3. Morin 8.58 (Pendulum collision) p. 344.
4. Mathematica notebook re: Morin 7.12 (Falling into the sun) to be done on Thursday
5. Morin 7.15 (Closest approach) p. 299.
6. Morin 7.17 (Parabola L) p. 299.
7. Morin 7.18 (Circle to parabola) p. 299.
8. (BONUS) Morin 7.21 (Repulsive potential) p. 300.