

Physics 262: Problem Set #10

These problems are due by the end of the day on Friday, Mar. 13 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. Morin 7.18 (Circle to parabola) p. 299
2. Morin 8.54 (Raising a hoop) p. 343
3. Morin 9.41 (Circling stick again) p. 424
4. Morin 10.6 (Released mass) p. 478
5. Morin 10.25 (Free particle motion) p. 484
6. Morin 10.20 (Spinning bucket) p. 483
7. Morin 10.23 (Maximum normal force) p. 484
8. Morin 10.31 (Roche limit) p. 486
9. (BONUS) Morin 10.12 (Shape of the Earth) p. 479. You'll want to follow the book's discussion of this 4-star problem. Do the required numerical integral in Mathematica.