

Physics 262: Problem Set #5

These problems are due by the end of the day on Friday, Feb. 3 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 8.3.1, pg. 215. (Use the numerical M and N given in problem 8.1.7 and verify equations 8.3.1-4 and 8.3.6.)
2. BTM 8.3.4 and 8.3.5 p. 217
3. There will be a worksheet to do and hand in from the Thursday session.
4. Morin 8.65 (Lollipop) p. 346
5. Morin 9.1 (Many different ω 's) p. 415
6. Morin 9.3 (Rolling cone) p. 415
7. Morin 9.31 (Rolling wheel) p. 421
8. Morin 9.44 (Rotating axle) p. 421
9. (BONUS) Morin 8.74 (Bouncing between bricks) p. 348