

Physics 261: Problem Set #9

These problems are due on Friday 2 December.

1. Math stuff: BTM 3.2.2 (area of circle) and BTM 3.2.4 (volume of sphere)
2. BTM 3.2.5 (I_0 for disk) and BTM 3.2.6 (volume of cone)
3. Morin 8.32 and 8.33 (I of cone and sphere)
4. Morin 8.18 (Ball hitting stick)
5. Morin 8.38 (Coin on inclined plane)
6. Morin 8.42 (Falling quickly)
7. Morin 8.27 and 8.45 (Atwood's with a cylinder)
8. Morin 8.48 (Stopping the coin)
9. Morin 8.52 (Cylinder, board and spring)
10. (BONUS) Morin 8.56 (Falling and sliding stick)