PHYS 333 — Problem Set #16

Reading: Chapter 5.1–5.3

Problems: Due Friday October 24

- 1. Griffiths 5.1
- 2. Griffiths 5.2a,b (Use results from Example 5.2 along with initial conditions given in problem. Plotting will be "easy" with appropriate computer tools.)
- 3. Griffiths 5.3
- 4. Griffiths 5.4
- 5. Griffiths 5.5
- 6. Griffiths 5.6
- 7. Griffiths 5.8 (Use results derived in class and text to help solve this.)
- 8. Griffiths 5.9
- 9. Griffiths 5.10
- 10. Griffiths 5.11 (You do not have to work with θ_1 and θ_2 as given in the diagram. I find it more straightforward to think about this in terms of the length of the cylinder, L, and a distance away from the cylinder.)
- 11. Griffiths 5.13