## PHY293 Suggested Problems #7

December 7, 2017

These are a few problems from Ch4 and Ch5 that illustrate some of the physics discussed in the last 4 or 5 lectures of the term (after the final, scheduled, suggested problems were assigned). On the final exam you are responsible for all the material in the course and could well see a problem based on the material presented in the last two weeks of term. I will post solutions for these problems on December 14. As always I strongly suggest you have a go at solving these before referring to the solutions. If you have questions I will be available on Friday the 15th and Monday the 18th during the office hours posted on my webpage for the course.

- 1) Harris 4.73
- 2) Harris 5.15
- 3) Harris 5.21
- 4) Harris 5.26
- 5) Harris 5.39 Oops, this was a typo. You are not responsible for pbms like this
- 6) Harris 5.90 (NB if you are asked one like this on the final exam you will be given the indefinite integral you need (and maybe a couple of others!). So you can just use a table of integrals here without having to worry about 'deriving' the integration from first principles.)
- 7) Harris 5.91
- 8) Harris 5.92