

**Physics 327—Advanced Classical Mechanics**  
**Problem Set #9**  
**Due Wednesday, April 24, 2024, 2:45 p.m.**

All problems are due at the *beginning* of class on Wednesday.

**Text Problems**

**Ch. 13:** 13.4, 13.5, 13.11, 13.18, and 13.21.

**Academic Honesty**

You may use, without proof, any results from class or from your text by simply quoting the result and giving the reference (*e.g.* equation number or page number). You should understand *how* that result was obtained, but you need not transcribe the derivation.

If you get bogged down with any of the problems, do not hesitate to discuss them with me or with a fellow student. However, if you discuss a problem with *anyone* (besides me) you should acknowledge that collaboration.