

ASTRO 381: HOMEWORK 1

Assigned on Tue Feb. 13. Due in class on Th Feb. 22

GD refers to the class textbook "Galactic Dynamics" by J. Binney & S. Tremaine (1987; Princeton University Press). The number of points for each question is indicated in brackets.

1. GD, problem 2-3 [**15 pts**]
2. GD, problem 2-6 [**15 pts**]
3. GD, problem 2-10 [**20 pts**]
4. GD, problem 2-12 [**15 pts**]
5. GD, problem 2-13 [**15 pts**]
6. GD, problem 4-17. This exercise illustrates where the factor of 136 comes from in the expression for the evaporation timescale discussed in class. [**20 pts**]