Problem Set #5

Due Monday, April 11 by 5pm to Dickinson 104

Unless otherwise indicated, all problems come from "The Cosmic Perspective," 8e

1. Problem 3.48 *Eris Orbit*
2. Problem 4.43 *Allowable Orbits?*
3. Problem 4.53 *Using Newton's Version of Kepler's Third Law*
4. Neptune's moon Nereid has an orbital period around Neptune of almost exactly one Earth year. If the mass of Neptune is around 10^{26} kg, what is the semi-major axis of Nereid's orbit?
5. Problem 5.56 *Doppler Calculations*