Homework Assignment #6 Name
due in class Friday, October 14
Cover Sheet : Staple this page in front of your solutions.
Write the <i>answers</i> (without calculations) on this page;
write the detailed <i>solutions</i> on your own paper.
[27] Problem 3.16.*
Answer: The distance from the center of mass of the earth-sun system
to the center of the sun is a fraction of the solar radius. The fraction is

[28] Problem 3.20.** (There is no answer to report here.)
[29] Problem 3.22.**
Answer: the coordinates (x,y,z) of the center of mass are
[210] Droblem 2 27 **
[210] Problem 3.27.** Answer: Let A = the gree enclosed by the orbit and T = the period of
Answer: Let $A =$ the area enclosed by the orbit and $T =$ the period of revolution. The relation between A and T is
[211] Problem 3.32.** The moment of inertia is

[212] Problem 3.35.**

The acceleration of the center.of mass of the disk is