Name
Homework Assignment #6 due in class Wednesday, October 11
Cover Sheet: Staple this page in front of your solutions.
Write the answers (without calculations) on this page;
write the detailed solutions (written carefully and legibly) 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
[30] Problem 3.27.** Answer: Let A = the area enclosed by the orbit and T = the period of revolution.
The relation between A and T is
[31] Problem 3.32.** Answer: The moment of inertia is
31] F1001cm 3.32. Answer. The moment of thereta is
[32] Problem 3.35.** Answer: The acceleration of the center of mass of the disk is