## **Reminders 05-06-10:**

- -POW 12 Due May 11
- -If you are transferring after this semester please have picture for our Hall of Fame.

## **Objectives**

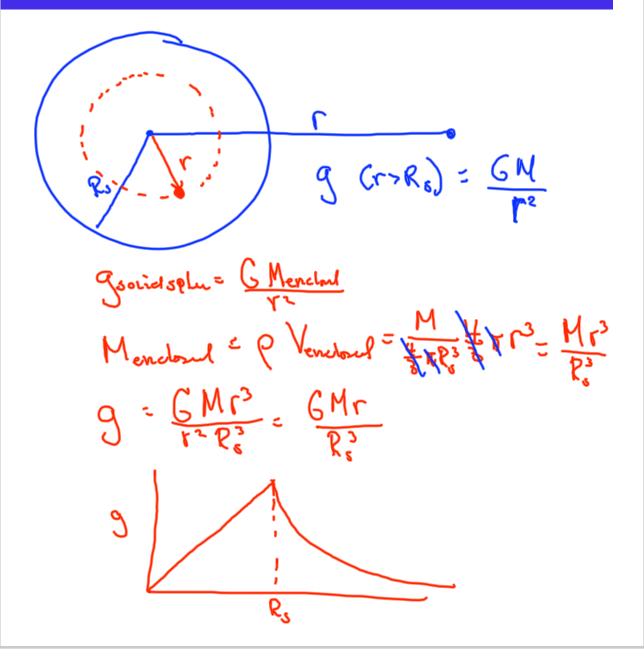
- -Kepler's Laws
- -Orbit Problem involving Conservation of L
- -Gravitational Field for Continuous Mass Distributions

Title: Oct 14-9:44 AM (1 of 4)

A rocket is fired at  $60^{\circ}$  to the local vertical with an initial speed  $v_0 = (GM/R)^{1/2}$ , where M is the mass of the earth and R is its radius. What is its maximum distance from the earth's center?

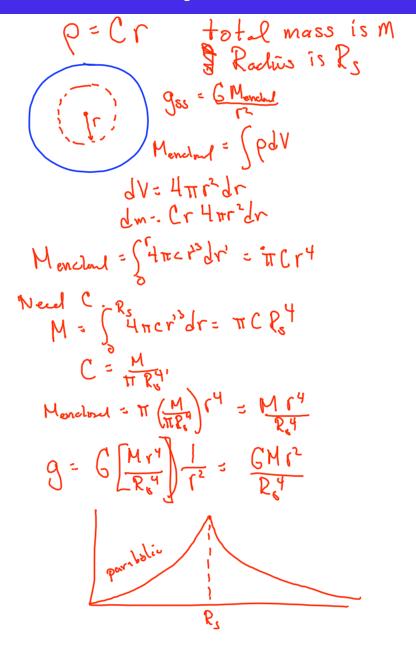
Title: May 6-11:20 AM (2 of 4)

What is the field strength inside a homogeneous sphere of total mass M and radius R.



Title: May 6-12:09 PM (3 of 4)

What if the density of the sphere varies linearly with the radius of the sphere?



Title: May 6-12:13 PM (4 of 4)