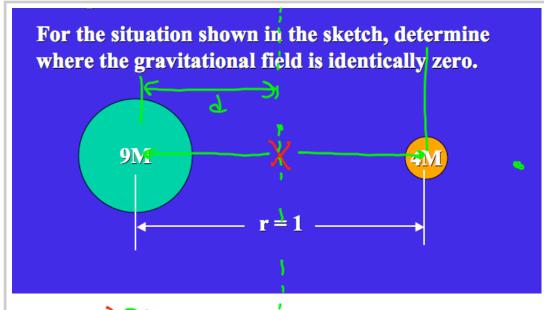
Reminders 05-04-10:

- **-POW 12 Due May 11**
- -Exam 4 Average 59%
- -Quiz in Recitation Thursday in Lecture Time Permitting
- -If you are transferring after this semester please have your picture for our Hall of Fame.

Objectives

- -Gravitational Field
- -Gravitational Potential Energy
- -Conservation of Energy
- -Orbit Problems
- -Kepler's Laws

Title: Oct 14-9:44 AM (1 of 7)



$$\frac{3^{4}}{3^{2}} = \frac{3^{4}}{(1-3)^{2}}$$

$$\frac{9}{3^{2}} = \frac{4}{(1-3)^{2}}$$

$$9(1-3) = 32$$

$$3(1-3) = 32$$

$$3 = 51$$

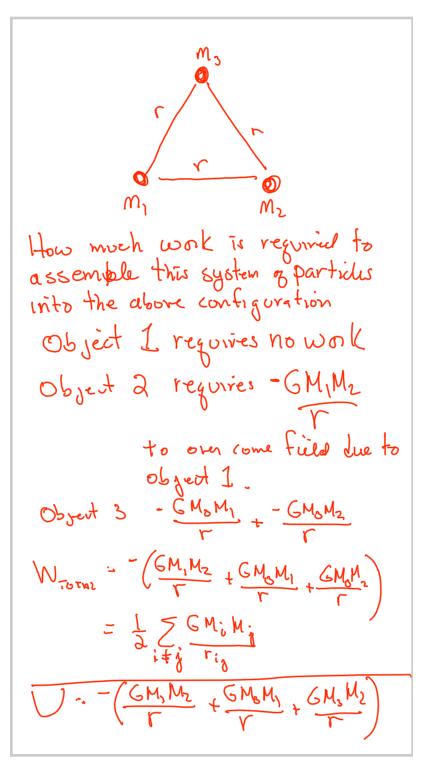
$$4 = \frac{3}{5}$$

$$3 = 51$$

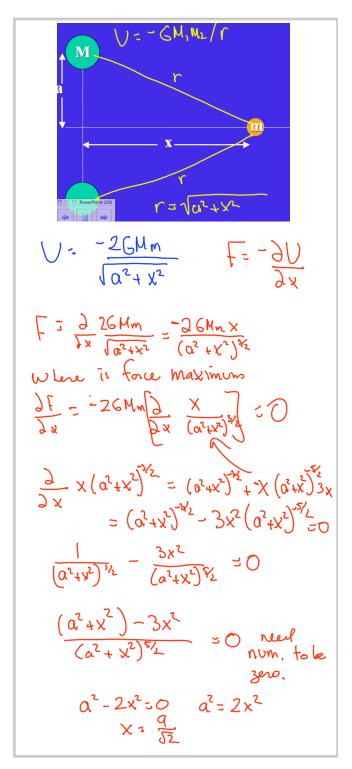
$$4 = \frac{3}{5}$$

Title: May 4-11:11 AM (2 of 7)

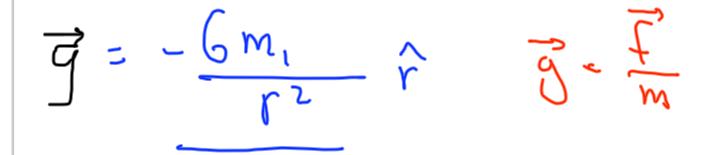
Title: May 4-11:18 AM (3 of 7)



Title: May 4-11:31 AM (4 of 7)



Title: May 4-11:43 AM (5 of 7)



This expression allows one to determine the strength of the gravitational field at any

location space. The term r² is the distance from the source of the field to the point where the field is to be determined, squared. The unit vector in the above equation is directed from the source of the field to the point at which the field is to be determined.



Title: Apr 27-12:17 AM (6 of 7)

Title: Apr 20-10:44 AM (7 of 7)