Reminders 03-09-10:

- -Exam 2 Average 67%
- -Quiz 6 on Chapter in Recitation this week.
- -POW 6 Due Thurs
- -Since <u>Centripetal Force Lab is our fourth</u> <u>experiment, it was the last lab with free pre-</u> check.

Objectives:

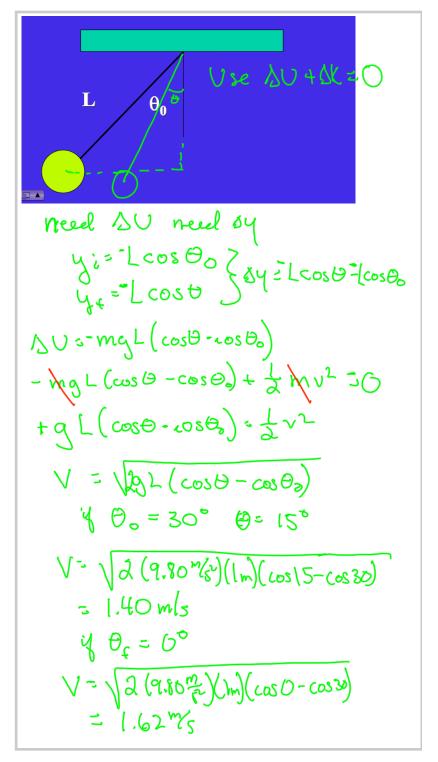
- -Potential Energy
- -Conservation of Energy
- -Examples

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

19 = L(1-cos0) Work done by gravity indep. of path. (F.dr = f(b)-f(a) 6 F.dr = f(a)-f(a) =0 F is conservative Define new goantity such that (F.d= Va)-U(b) = -SU Call U potential Energy

Title: Mar 9-11:12 AM (2 of 7)

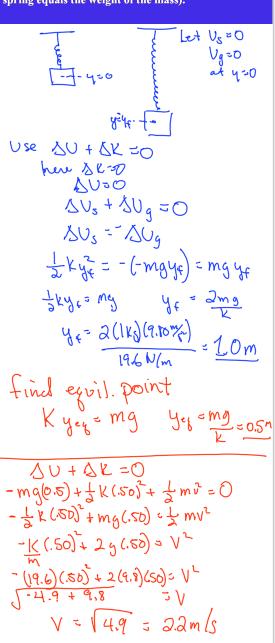
1)+1/1 = () -V: + K, - K; = 0 + Kf - (V; +Ki) = 0 - Ei=()



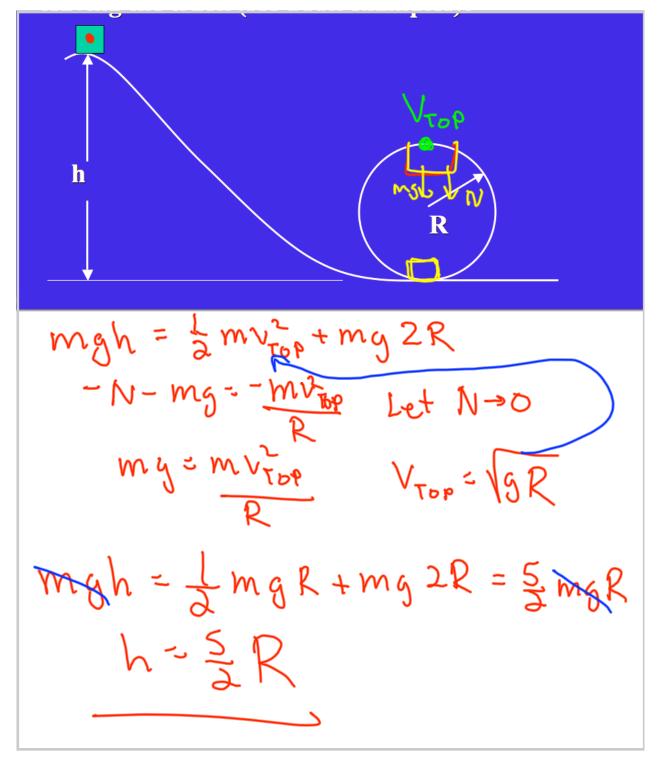
Title: Mar 9-11:48 AM (4 of 7)

A 1 kg mass is attached to the end of an unstretched spring and then dropped. If the spring constant is 19.6 N/m what would be the maximum extension of the spring?

What would be the speed of the mass as it passed through the equilibrium point (where the force of the spring equals the weight of the mass).



Title: Mar 9-11:57 AM (5 of 7)



Title: Mar 9-12:11 PM (6 of 7)

A block that is on a table (not frictionless) is pushed to the left by a force equal to 5N. The block moves to the left at a constant speed of 2m/s. We can conclude that the total work done by all forces acting on the object is

- a. greater than zero.
- b. less than zero.
- c. equal to zero.
- d. unknown.

Title: Oct 14-11:17 AM (7 of 7)