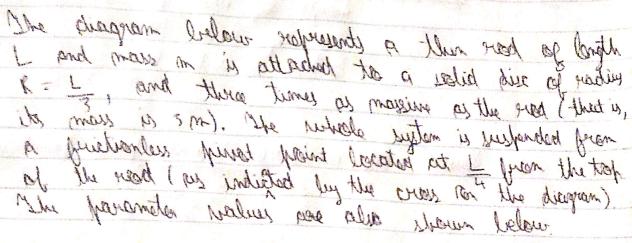
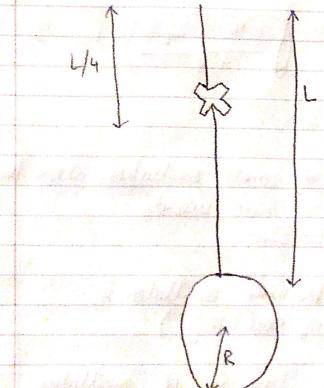
05/11/2011

## 148 ON2 5 4115





on = 3.27 log L = 5.16 m

twools prophelists thank golf by baired gult summeted (a)

(b) If the prophetide of the oscillation is 0 = 0.12 xad, write the aquation for this harmony ascillator.

(a) let the system in oscillating for 15 seconds, determined that done.

Now many ascillation it has done.

O t.0

his fina may of rad m= 3.7 s by Someth not read I = 3 16 m more of disk, M = 30m.
Brodies of disk, R = 1 Round poly estillation about final point is, (00) T = 27 ( ] = 5  $T = 2\pi \left( \frac{3.16 - 3.16}{9.9} \right) \left[ \frac{1}{3.16} - \frac{9.8 \, \text{m/s}^2}{9.9} \right]$ T = 3.085 bound get broads wantalliers clame for boired point = 3.08 seconds haprestran for harmonic assellator is,  $x(T) = \Theta_0 \cos(277)$ (le) sortallised to forequesty but is I , except If the system is assillating for T, =155, (2) than number of resillation is given as: a realizable such as such as such producing a wall is a suite of a walling a wall Here in is the number of oscillations of f is the freezement of pseulation.

4 = 1 3.08 4 = 1 3.08

· 0.32 = 0

:. M & 5

. The number of excitation is 5.