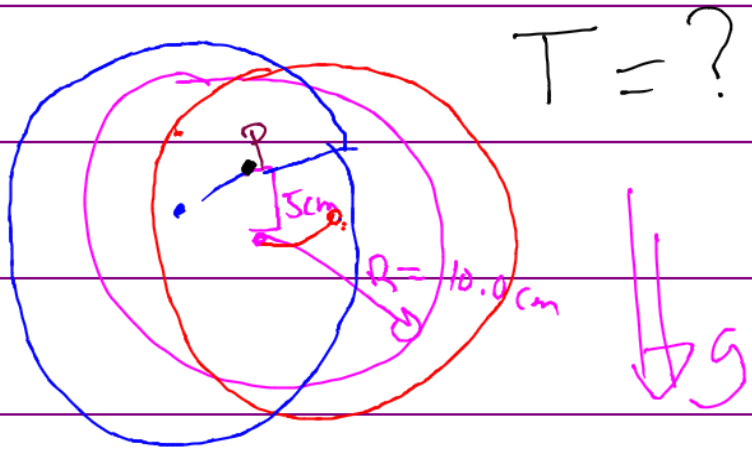
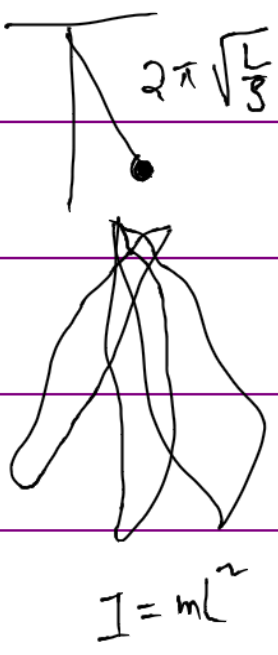


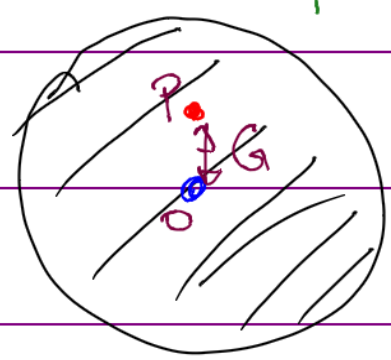
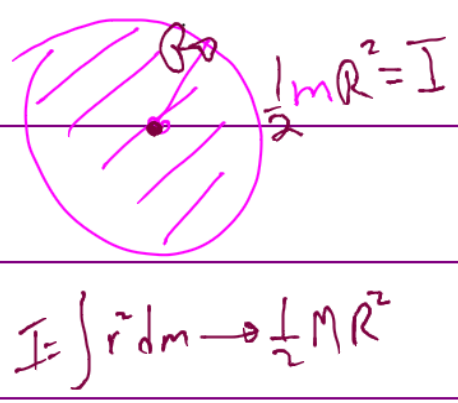
Forced oscillation driving frequency $\omega \approx \omega_0 (\approx \omega_1)$

$\beta^2 \ll \omega^2$
 $\omega_1 \approx \omega_0$
 response \uparrow
 $X(t)$

ω far away ω_0 response \downarrow



~~$T = 2\pi \sqrt{\frac{mgL}{I}}$~~ , $2\pi \sqrt{\frac{I}{mgL}}$



$T = 6.28 \sqrt{\frac{3/4 MR^2}{Mg(R/2)}}$

$I = ? = \frac{3}{4}MR^2$

$L = ? = R/2$

$T = 6.28 \sqrt{\frac{0.15}{9.8}}$

$G = R/2$

$T = 6.77 \text{ s}$

$I_p = I_{cm} + M G^2$

$= \frac{1}{2}MR^2 + M(R/2)^2$

$$= 0.75 MR^{\sim} = \frac{3}{4} MR^{\sim}$$