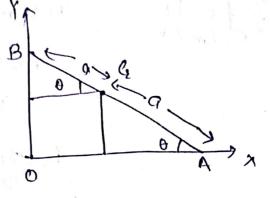
let one be right circularcone From a base with Amous oliameter having radius of h NOW MEYU (volume of cone = I math) = 4x & mazh = Tx 1 mx (h rand) xh (::tand= a/n) 当からからない、一〇 It we consider an elementary massdisc po of thickness dx parallel to base non and exta distance of from vertex O dm - Px(T1x2x kan2x) xdx of elemantary disc about axis on of cone = 1 (am) cp2 = 1 x(+ x 17x2 x ran2 dx8/x) (x rand)2 d1 = 1+17 24 tan 4 dx 1: Jd1 = J= +17 24 tan4a dx = 1 +17 tanya. 15 C = 7π μ5 τουμα - (11) Bubs tiluting tranget from 1 II = M Y II x h5, tanya = 3M h2 tarita = 3M 02

2011

let MB be rod of length 20' tmass M.

at angle a with horizontal



Q (acoso, asino)

velocity of Qin givenby

$$v_{3}^{2} = (-a \sin \theta \dot{\theta})^{2} + (a \cos \theta \dot{\theta})^{2} = a^{2} \dot{\theta}^{2}$$

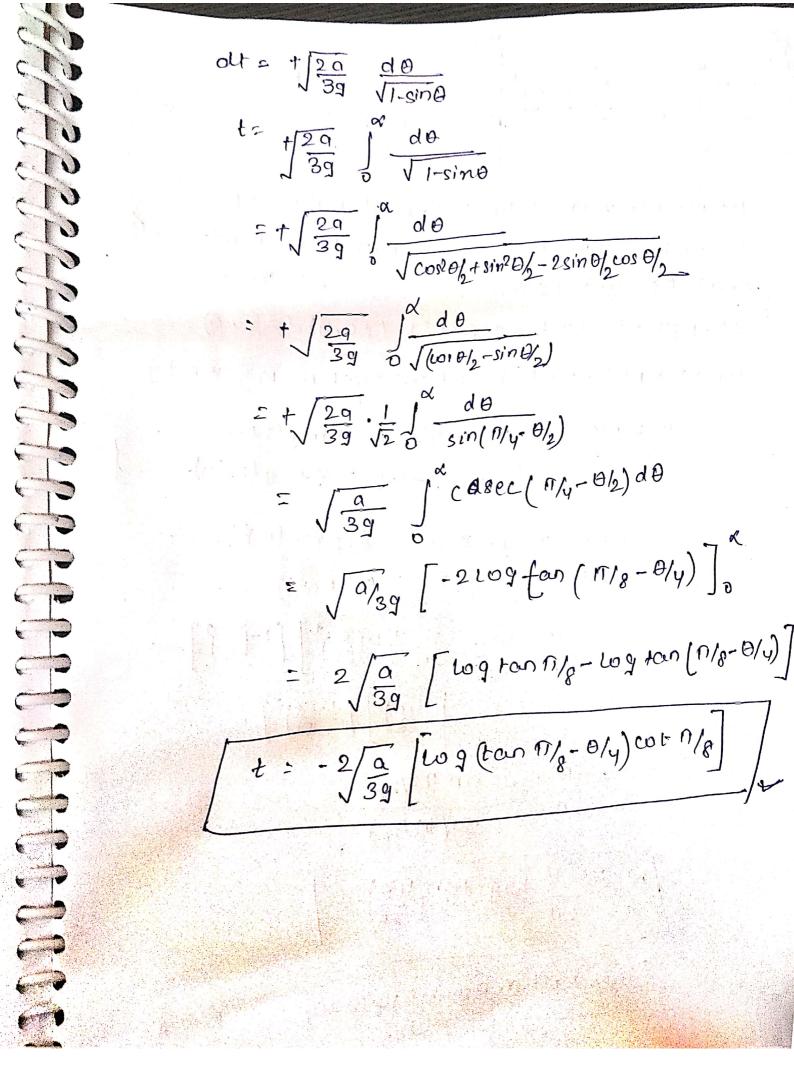
k.E obrod attimet

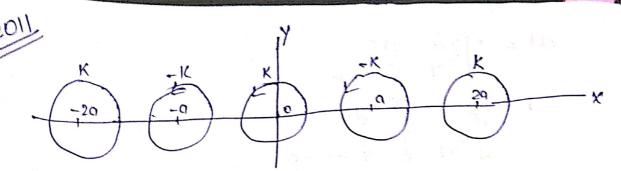
$$=\frac{1}{2}m\left(\frac{1}{3}\alpha^{2}\theta_{2}^{2}\right)+\frac{1}{2}m\left(\alpha^{2}\dot{\theta}^{2}\right)=\frac{2}{3}m\alpha^{2}\dot{\theta}^{2}$$

change in kit swork done by a rowity

$$\dot{\theta}^2 = \frac{39}{29} \left(1 - 5 \ln \theta \right)$$

-resign indicating motion downeds of deceating.





$$W = \frac{i \, K}{2 n} \left[\log z + \log (z - 2a) + \log (z + 2a) + \ldots \right]$$

$$- \left[\log(z - a) + \log (z + a) + \log (z - 3a) + \ldots \right]$$

$$\frac{2111}{211}$$
 $\log \frac{z[z^2-(a)^2][z^2-(a)^2]-...}{[z^2-a^2](z^2-(a)^2)]-...}$

$$= \frac{1!k!}{2!!} \log \frac{z}{2a} \left[\frac{1-(z)^2}{(2a)^2} \right] \left[\frac{1-(z)^2}{(3a)^2} \right] ...$$

$$\int_{0}^{\infty} \frac{1}{2\pi} \log_{10} \frac{$$

This will determine velocity potential 4etreum function.