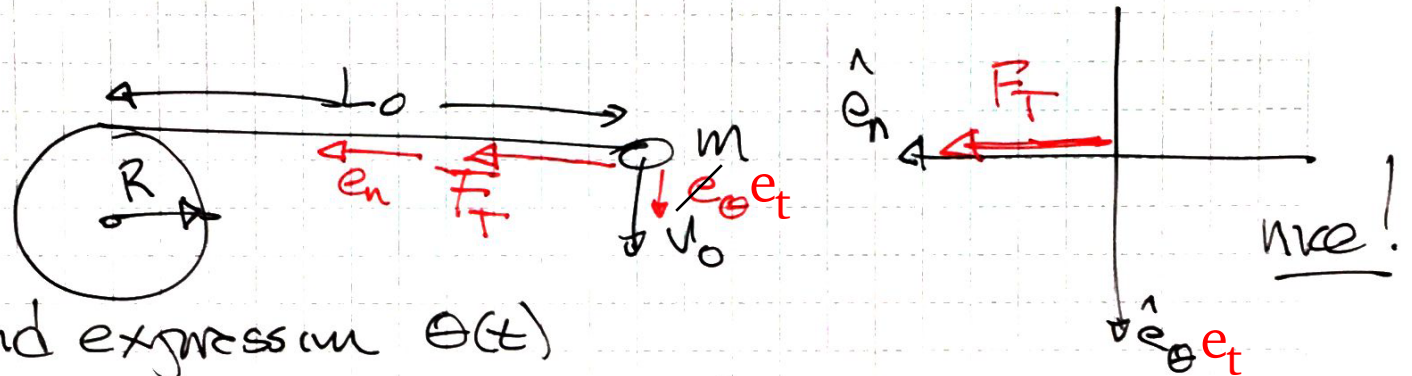


Given:Req'd Find expression  $\theta(t)$ Assump No gravity,  $F_T$  is only force  $\Rightarrow a_t = 0$ Estimate I can only do proportional reasoning w/ no #'s  
 $\theta(t) \propto$  as  $v_0 \propto$  so  $v_0$  should be in the numerator.what matters is the relationship between  $L_0$  &  $R$ .which suggest  $L_0/R$  is in there somewherewhen  $L_0$  is big I would expect  $\theta$  to change slowly?

- no I take that back. Wow - I'm not sure!

Strategy = Set components of Forces in  $n/t = m a(n,t)$