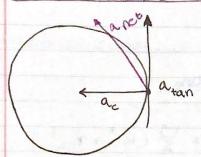
## VAL KINEMA

Equations 
$$\omega = \frac{\Delta \omega}{\Delta E}$$

$$\alpha = \frac{\Delta \omega}{\Delta t}$$

$$\alpha_{c} = \frac{\sqrt{2}}{\Gamma} = \Gamma \omega^{2}$$

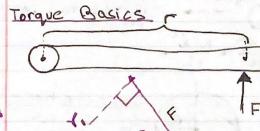
## NET LINEAR ACCELERATION

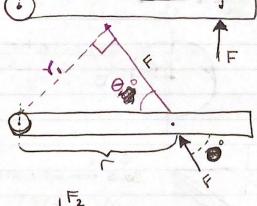


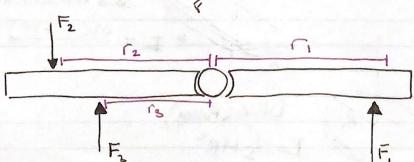
$$a_c = \frac{V^2}{r} = r\omega^2$$

$$a_{tan} = dR$$

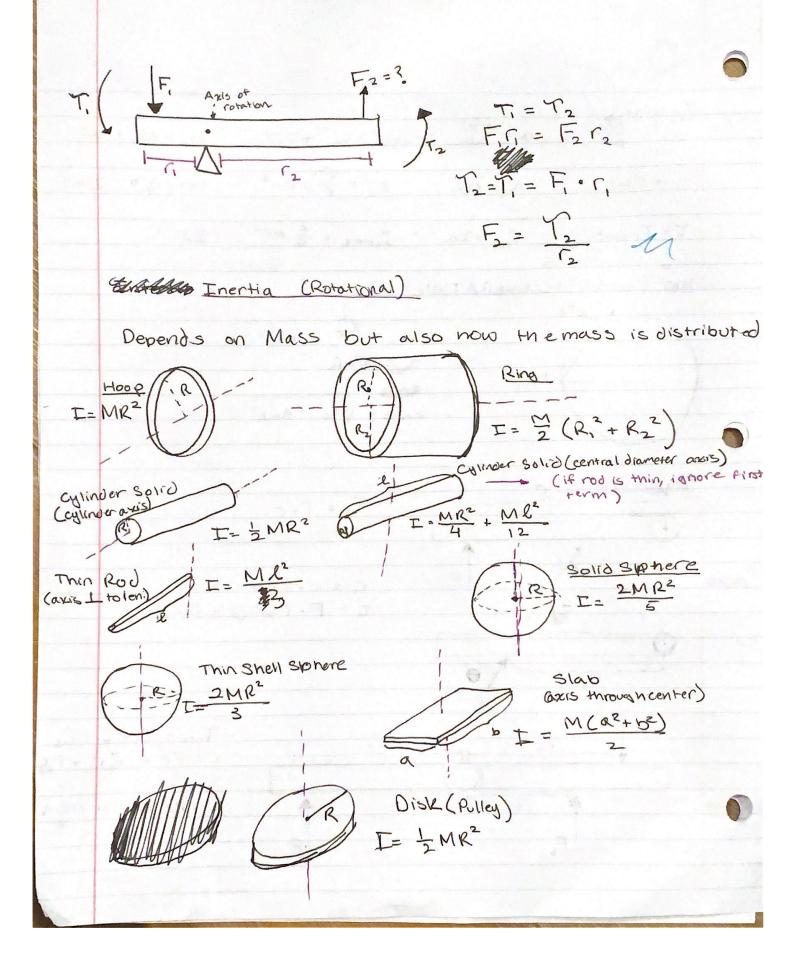
$$a_{net} = \sqrt{a_e^2 + a_{tan}^2}$$

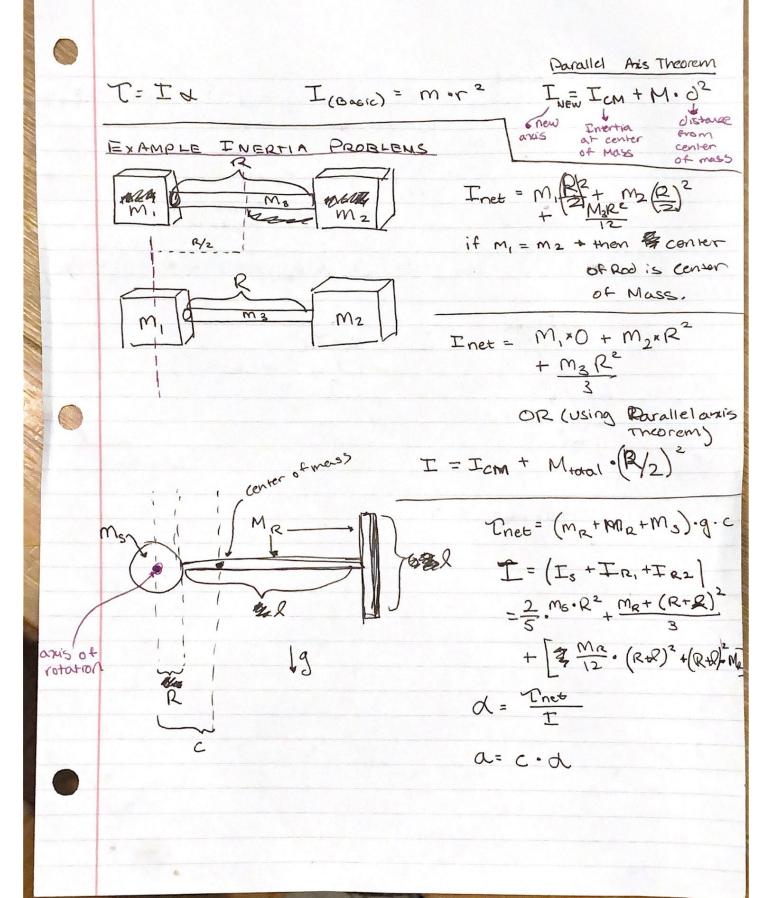


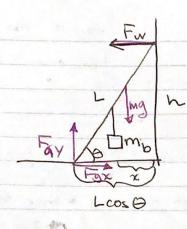




(remember direction



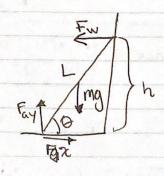




$$F_{ay} = F_N$$
  $F_{ax} = F_s = (m_0 + m_b g) \cdot \mu$   
 $F_{ay} = (m_0 + m_b g)$   $F_{ax} = F_w$ 

$$\sum_{T} T = T_1 + T_2 + T_3 = 0$$
Too portion portion
by perso by fadder

0= Fw(h) To mg(LeoSO-x) To mg (LeoSO/2



$$\sum T = \tau_1 - \tau_2$$

$$= f_{\overline{w}}(n) - mg(L\cos \theta)$$

Polley

-mza+ mzg= zma