



$$\Sigma F = m \cdot a$$

$$F = m \cdot a.$$

$$\Sigma M = 0 \quad \downarrow \text{+ve @ } O$$

$$\boxed{-T = 0} \quad ?$$

$$\Sigma M = 0 \quad \downarrow \text{+ve @ } G.$$

$$F \cdot x_G - T = 0$$

$$\Rightarrow \boxed{T = F \cdot x_G} \quad ?$$

Should it be  $\Sigma T = J \cdot \alpha$  ?

But its in pure translation  
not general plane motion.