$$\alpha = \frac{\tau}{I}$$

$$\alpha = \frac{RF\sin(\theta)}{\frac{2}{5}MR^2}$$

$$\text{Rot KE} \;=\; \frac{1}{2}I\omega^2$$

$$\begin{aligned} \text{Rot KE}_\text{f} &= \text{Rot KE}_\text{i} + \text{Work}_\text{net} \\ \text{Rot KE}_\text{f} &= \text{Rot KE}_\text{i} + \int \vec{\tau} \cdot \vec{d\theta} \end{aligned}$$