

How is \vec{L} RELATED to $\vec{\tau}$?

Guess: $\sum \vec{F} = \frac{d\vec{p}}{dt}$

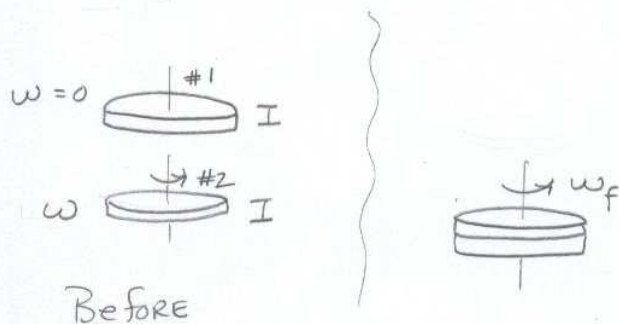
maybe... $\sum \vec{\tau} = \frac{d\vec{L}}{dt}$?

* $\vec{L} = I \vec{\omega}$ do $\frac{d}{dt}$

$$\frac{d\vec{L}}{dt} = I \frac{d\vec{\omega}}{dt} \Rightarrow \frac{d\vec{L}}{dt} = I \vec{\alpha}, \text{ but } I \vec{\alpha} = \sum \vec{\tau}$$

So $\sum \vec{\tau}_{\text{ext}_A} = \frac{d\vec{L}_A}{dt}$

In Lab:



Is the Angular Momentum of Disk #1 conserved? Disk #2?