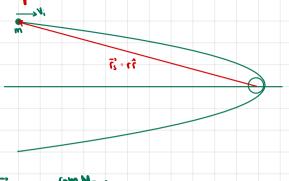
19.4 Constitution of Angula Homentom Hours a Point 19.5 Angular Impulse

oil ti-o then dis = 0 + list - list

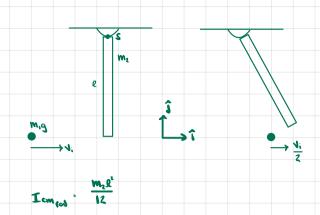
example in 4



It there is a total applied torque is about a point s over time interval Of then the targe applies an angular impulse about a points,

$$\overrightarrow{J}_{s} = \int_{t_{i}} \overrightarrow{c}_{s} dt = \overrightarrow{L}_{s, t} - \overrightarrow{L}_{s, i}$$

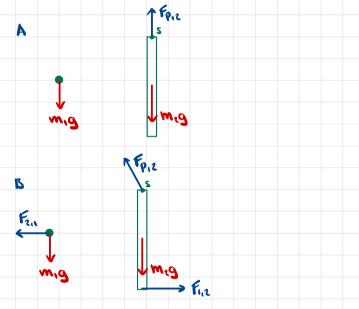
## MULTANA TO POLICE TO SUPPLY 8. P.



=1216W: log + m'

three states: A (immediately before collision), B (immediately before coll

## Jundemores champines: momentum, engo, , and manentum



num is meanances ensign in constant

$$\begin{array}{lll}
\vec{L}_{SH}, & = (-\hat{L}_{S}) \times m_{1} \frac{V_{1}}{3} \hat{I} + \vec{L}_{S} \vec{\omega}_{B} \\
\vec{L}_{SH}, & = (-\hat{L}_{S}) \times m_{1} \frac{V_{1}}{3} \hat{I} + \vec{L}_{S} \vec{\omega}_{B}
\end{array}$$

$$= \frac{2mNi}{3}\hat{h} + I_5\omega_6\hat{h}$$

$$= D m_1 2V_1 = \frac{m_1 2V_1}{3} + I_5\omega_6$$

$$I_{s} = m_{z} d_{cm}^{2} + I_{cm} = m_{z} \cdot \frac{Q^{2}}{4} + \frac{m_{z} Q^{2}}{12} = \frac{m_{z} Q^{2}}{3}$$

$$= 0 \quad 0 \cdot \frac{5m_{z} Q_{z}}{2m_{z} Q_{z}} = \frac{3m_{z} Q_{z}}{2m_{z} Q_{z}}$$

B to C

Granishows but is consulting to DEm O



$$E_{0} = \frac{\mathbf{I}_{5} \cos^{2}_{0}}{2} + \frac{\mathbf{I}_{1} (\sqrt{12})^{2}}{2} + \frac{\mathbf{I}_{1} \sqrt{12}}{2} + \frac{\mathbf{I}_{1} \sqrt{12}}{2} + \frac{\mathbf{I}_{2} \sqrt{12}}{2} + \frac{\mathbf{I}_{1} \sqrt{12}}{2} + \frac{\mathbf{I}_{2} \sqrt{12}}{2} + \frac{\mathbf{I}_{1} \sqrt{12}}{2} + \frac{\mathbf{I}_{2} \sqrt{12}}{2} + \frac{\mathbf{I}_{2} \sqrt{12}}{2} + \frac{\mathbf{I}_{1} \sqrt{12}}{2} + \frac{\mathbf{I}_{2} \sqrt{12}}{2} + \frac{$$

$$E_c = m_2 g \frac{Q}{2} + \frac{m_1 (v_1 | z)^2}{z}$$

DEM : 0 + E8 : Ec

$$\frac{3m_{1}^{2}V_{1}^{2}}{8m_{2}} = m_{2}g\frac{Q}{2}$$

$$\frac{3m_{1}^{2}V_{1}^{2}}{2m_{2}^{2}g}$$

$$\frac{3m_{2}^{2}V_{1}^{2}}{2m_{1}^{2}g}$$

chat condition is measured but the collision to be examine?

$$\frac{x_{m_1}x_1'}{x_{m_2}} = \frac{x_{m_1}x_1'}{x} \Rightarrow \frac{m_1}{m_2} = 1$$