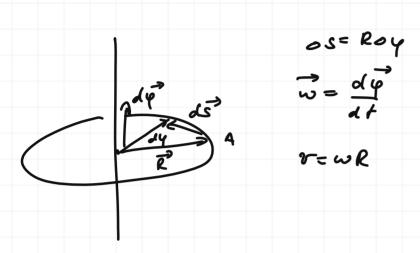
Bpang. Thepy, mena boupy fixed ocy Moreum unipyers Coomnoweuni Notirenca - Moetinepa Butucheure monumer muspyum

Bpayeune TT



la vaco ororens q la mongle monne:

$$R = r8n\theta$$

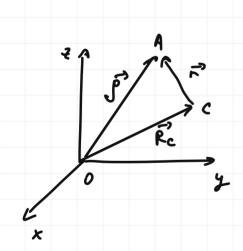
$$V = \omega r 8n\theta$$

$$\vec{r} = [\vec{\omega}, \vec{r}]$$

$$(a\vec{r} = [d\vec{\phi}, \vec{r}]$$

to be used worgq on spary. Memen usnot. & up. he

$$\vec{a} = \vec{\omega} \times \vec{r} = \left[\vec{\omega} \left[\vec{\omega}, \vec{r} \right] \right] = \vec{\omega} \left(\vec{\omega}, \vec{r} \right) - \vec{r} \vec{\omega}^2 = - \vec{\omega}^2 \vec{R}$$



e - tropamare morna om orema (ue obeg. y.m.)

$$\frac{d\vec{\varphi}}{dt} = \vec{\omega} \qquad \frac{d\vec{e}}{dt} = \vec{V}_c$$

по определить боти. С

g-m, 4mo w u jahreum om busspa naraka omorena 677 ~= B+~1

$$[\vec{\omega}, \vec{r}'] = [\vec{\omega}', \vec{r}'] \qquad \text{T.e.} \qquad \vec{\omega} = \vec{\omega}'$$

Moment unepyun ornuscum. och

npumepn

Устранный поменя инеручи

$$I_{x} = \int (y^{2} + z^{2}) dm$$

$$I_{y} = \int (x^{2} + z^{2}) dm$$

$$I_{z} = \int (x^{2} + y^{2}) dm$$

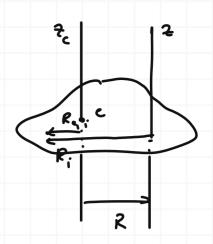
$$I_{\lambda} + I_{y} + I_{\xi} = 2 \int_{m} r^{2} dm = 2 I_{0}$$

Npunepn

$$\Im = \frac{2}{3} m R^2$$

The Thousensa- Useuneps

J= Jc + m R2 (2) (2) Elle. Whox. reprzy. macc



$$R_i = R_{ci} - R$$

$$J = \sum_{i} m_{i} R_{i}^{2} = \sum_{i} m_{i} R_{e_{i}}^{2} + \sum_{i} m_{i} R_{e_{i}}^{2} + \sum_{i} m_{i} (R_{e_{i}}, R) =$$

$$= M_{e_{i}} + mR^{2} + (\sum_{i} m_{i} R_{e_{i}}, R)$$

$$= M_{e_{i}} + mR^{2} + (\sum_{i} m_{i} R_{e_{i}}, R)$$

$$= M_{e_{i}} + mR^{2} + (\sum_{i} m_{i} R_{e_{i}}, R)$$

$$= M_{e_{i}} + mR^{2} + (\sum_{i} m_{i} R_{e_{i}}, R)$$

g. e.d,

8.

