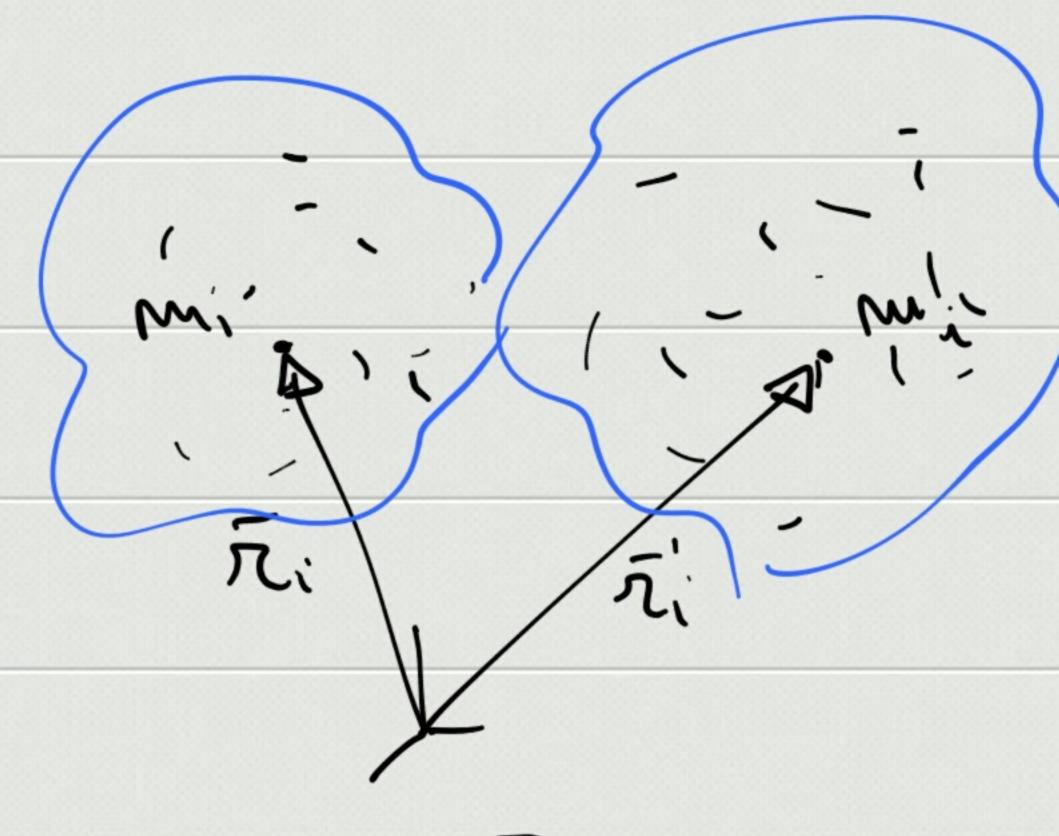
de, dm
m, R, omogen
B ox A
$$\overline{R}$$
 \overline{C} \overline{R} $=$?

$$\Rightarrow \overline{r}_{CR} = \frac{1}{m} \int_{0}^{\infty} \overline{r}_{R} \frac{de}{dr} = \frac{1}{mR} \int_{0}^{\infty} \overline{r}_{R} de = \frac{1}{mR} \int_$$

$$= \frac{1}{\pi} \int (\cos \theta \, \bar{\sigma}_{x} + \sin \theta \, \bar{\sigma}_{y}) \, R \, d\theta =$$



$$\frac{1}{R} = \frac{\sum_{i} \left(m_{i} \cdot \overline{n}_{i} + m_{i}' \cdot \overline{n}_{i}' \right)}{\sum_{i} \left(m_{i}' + m_{i}' \cdot \overline{n}_{i}' \right)} =$$

$$= \frac{\sum_{i} m_{i} \overline{n}_{i}^{i} + \sum_{i} m_{i}^{i} \overline{n}_{i}^{i}}{\sum_{i} m_{i} + \sum_{i} m_{i}^{i} \overline{n}_{i}^{i}} =$$

Semidisco R, m, omogeneo F. -?

$$\overline{\mathcal{T}_{cm,n}} = \frac{\int \overline{\mathcal{T}_{cm,n}} dm_n}{\int dm_n} \tag{*}$$

$$\rho_{s} = \frac{2m}{\pi R^{2}}$$

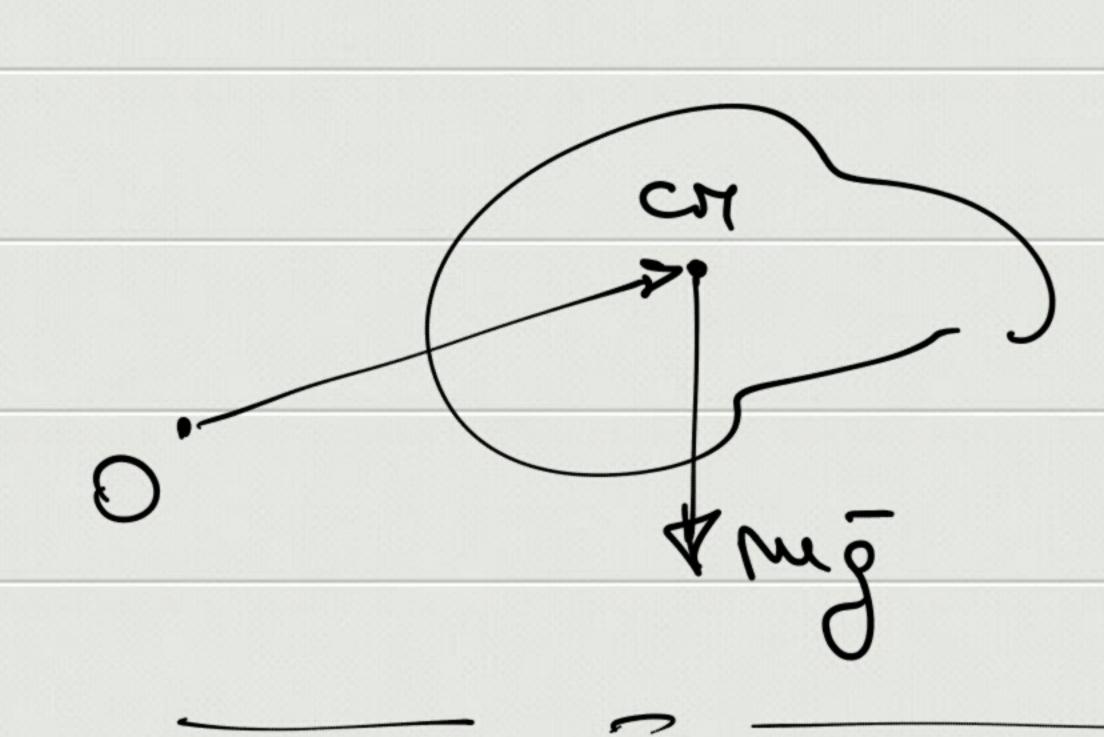
$$= \frac{1}{dm} \implies dm_{s} = \rho_{s} ds = \frac{2m}{\pi R^{2}} ds =$$

$$dS = \pi R dR \implies = \frac{2m}{\pi R^2} \pi R dR$$

$$(*) \quad \overline{r}_{cm, a} = \frac{1}{pw} \int_{0}^{R} \frac{2r}{\pi} \overline{t} y - \frac{2pw}{R^{2}} r dr =$$

$$= \frac{4}{\pi R^2} \bar{v}_y \int_0^{R^2} dr = \frac{4}{\pi R^2} \bar{v}_y \cdot \frac{1}{3} R^3 = \frac{4R}{3\pi} \bar{v}_y$$

dr, dm Forsa perso = maam dr, dm dmo = x dmp $\overline{M}_{o} = \int d\overline{M}_{o} = \int \overline{x} \times dm \, \overline{g} = \left(\int dm \, \overline{x} \right) \times \overline{g} =$ First = 1 Falm mszm



$$E_{\rho} = \int dE_{\rho} = (\kappa)$$