

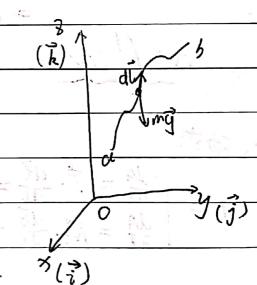
$$A = \int_{\alpha}^{b} M d\theta = \int_{\alpha}^{b} \frac{dw}{dt} d\theta = \int_{a}^{b} \frac{1}{u} dw$$

$$\frac{1}{1} \frac{E_{k} - \int \frac{1}{2} dm (rw)^{2}}{m} = \frac{1}{2} \left(\int r^{2} dm \right) w^{2}$$

$$= \frac{1}{2} I w^{2}$$

$$-A = \frac{1}{2} I w_s^2 - \frac{1}{2} I w_a^2 = A E_R$$

四、势能与保守力

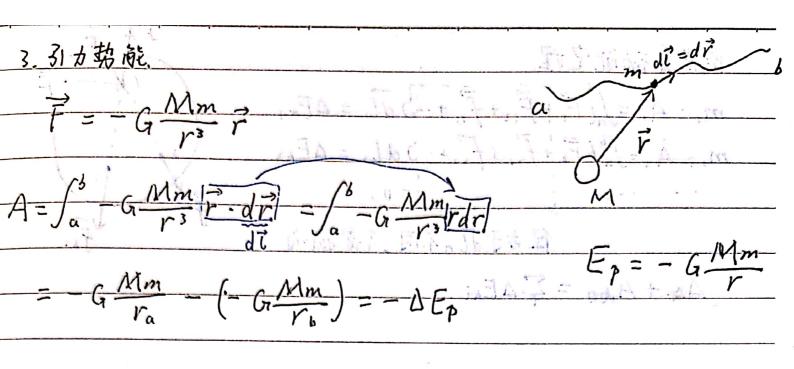


2. 3年世 始能.

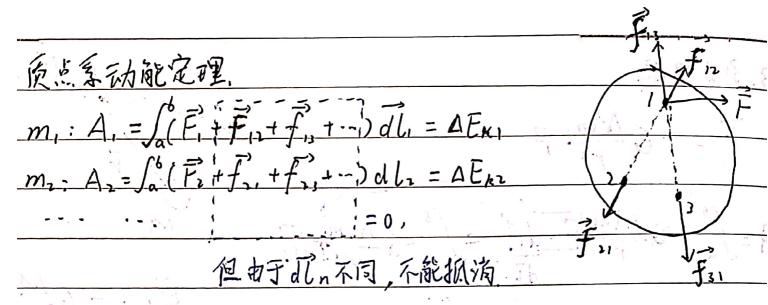
$$\vec{f} = -k\pi i$$

$$A = \int_0^{\infty} \vec{f} d\vec{x} = \int_0^{\infty} -k \times dx = -\frac{1}{5}kx^2$$

W W



$$\nabla = \frac{\partial}{\partial x} \vec{i} + \frac{\partial}{\partial y} \vec{j} + \frac{\partial}{\partial z} \vec{k} \quad (\text{line}) \quad \nabla \times \vec{F} = \begin{bmatrix} \vec{i} & \vec{j} & \vec{k} \\ \hline - \vec{k} & - \vec{k} & - \vec{k} \\ \hline - \vec{k}$$



AA+AMD = ZAEAi