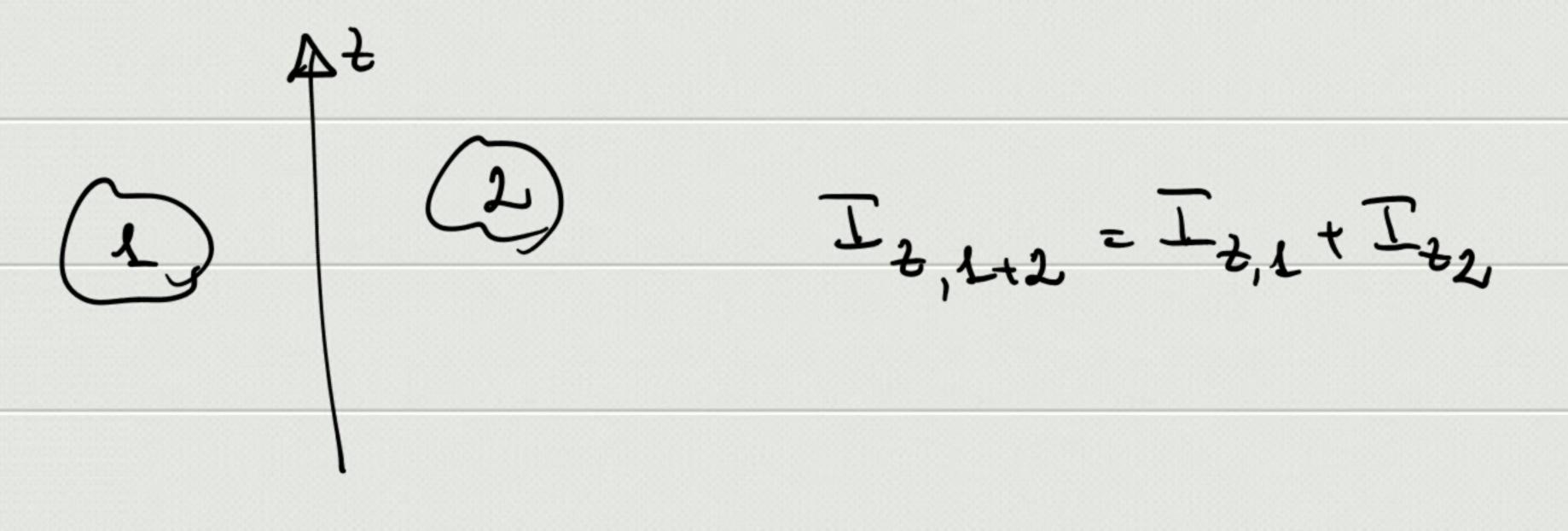
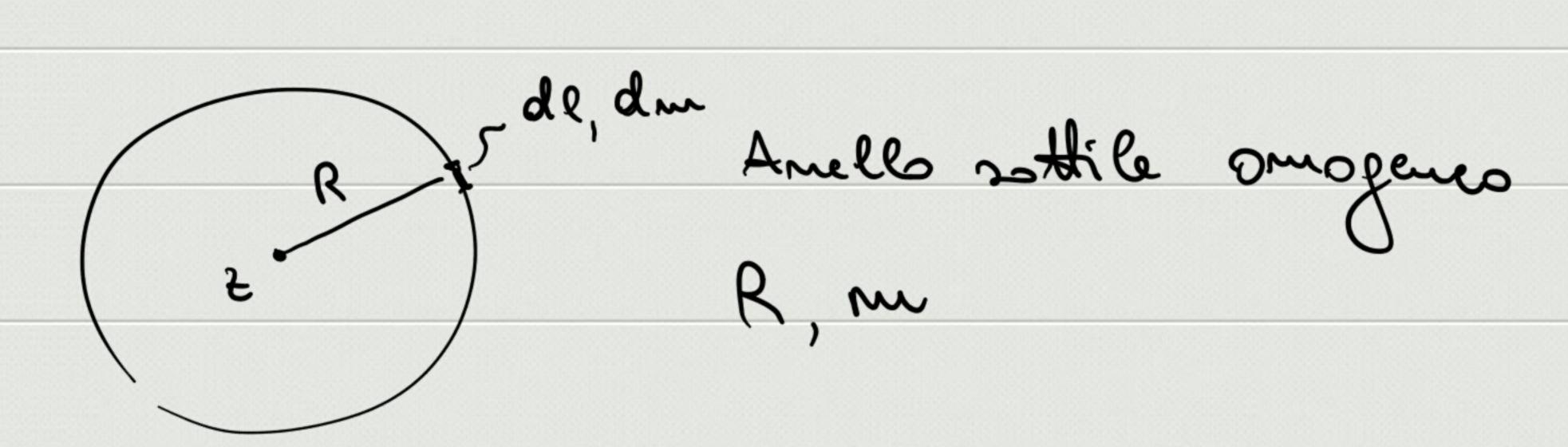
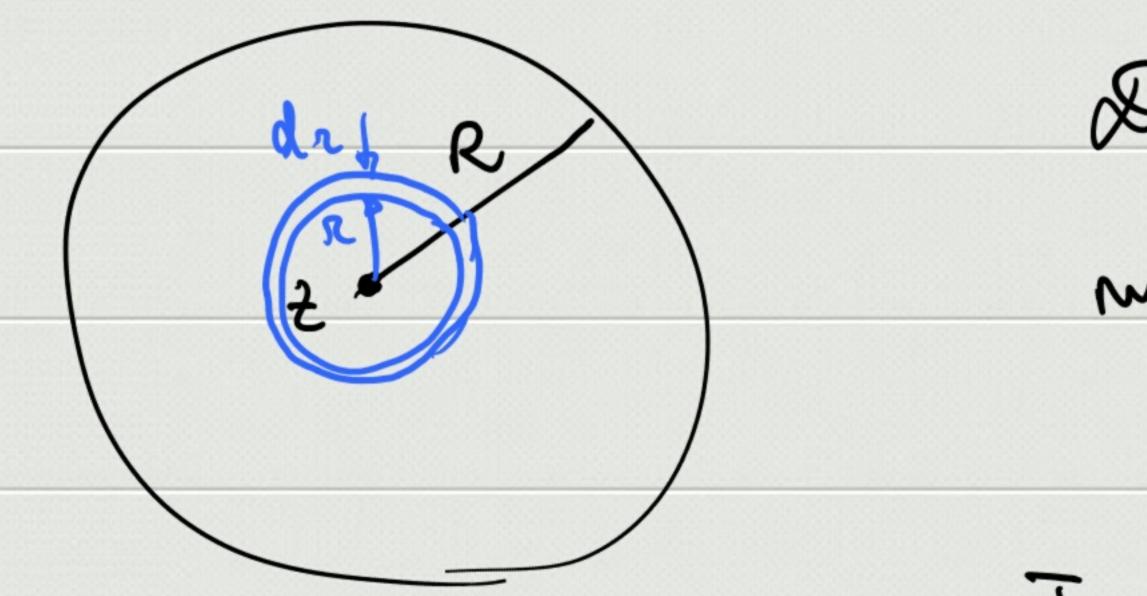


le momento di inversió e additivo







Disco sattile omogenes

m, R

Ize JRidm (2 Rx)

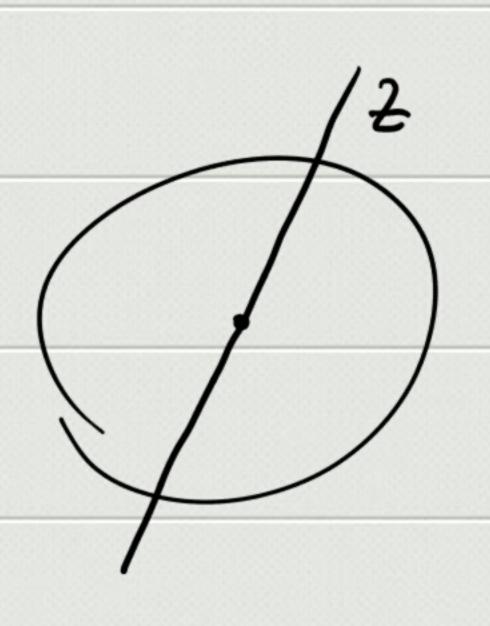
$$dI_{2,ance} = r^2 dm$$

$$dm = \rho_S dS = \frac{m}{\pi R^2} 2\pi r dr$$

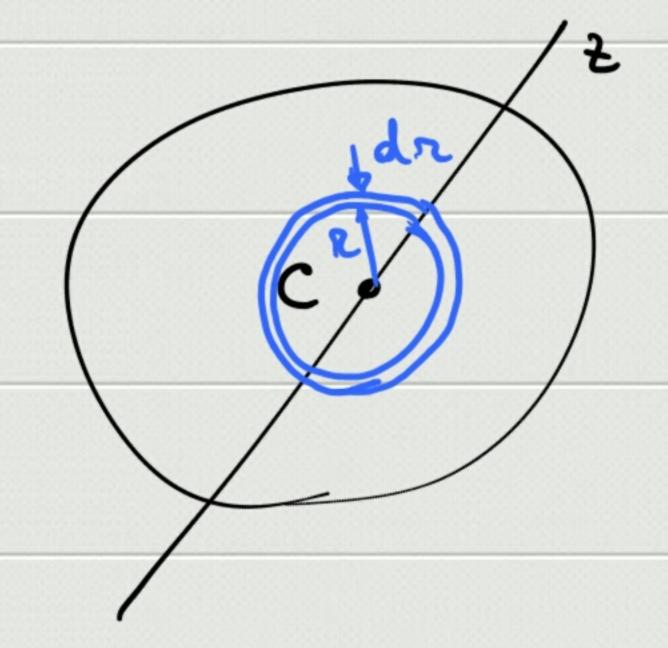
$$T_{2,\text{dinco}} = \int dT_{2,\text{ance}} = \int_{0}^{R} \frac{2m}{R^{2}} r^{2} dr = \frac{2m}{R^{2}} \frac{R^{2}}{4} = \frac{1}{2} mR^{2}$$

guario aferica sattile m, R

$$I_2 = \frac{2}{3} m R^2$$



It spera piena, m, R omogenea



 dI_{2} = $\frac{2}{3}$ dm x^{2}

$$\frac{\rho = \frac{m}{4\pi R^3}}{\sqrt{\frac{3}{4\pi R^3}}} = \frac{3m}{4\pi R^3} dV$$

$$= \frac{dm}{4\pi R^3}$$

$$dV = 4\pi x^2 dx$$

$$\Rightarrow dm = \frac{3m}{4\pi R^3} 4\pi r^2 dr = \frac{3m}{R^3} r^2 dr$$

$$I_{2}, \text{fine} = \int dI_{2}, \text{gundo} = \int \frac{2}{3} z^{2} \cdot \frac{3m}{R^{3}} z^{2} dz = \frac{2m}{R^{3}} \frac{R^{5}}{5} = \frac{2}{5} m R^{2}$$

Sberra 2 Hile omegenea d, m

$$\frac{\Delta t}{dx,dm} = \int_{\mathbb{R}^{2}} \mathbb{R}^{2} dm$$

$$\frac{1}{2} = \int x^2 dx = \frac{m}{d}$$

$$\int e^{-\frac{m}{d}} \int dx = \frac{m}{d} dx$$

$$= \int_{-d/2}^{d/2} x^2 \frac{m}{d} dx = \frac{m}{d} \left[\frac{x^3}{3} \right]_{-d/2}^{d/2} =$$

$$= \frac{m}{3d} \left(\frac{d^3}{8} + \frac{d^3}{8} \right) = \frac{m}{3d} \frac{d^3}{4} = \frac{1}{12} m d^2$$

$$\frac{dx}{dx}$$

$$T_{z} = \int R^{2} dm = \int n^{2} dm = \frac{mv}{d} dx$$

$$= \int n^{2} \frac{mv}{d} dx = \frac{mv}{d} \left[\frac{x^{3}}{3} \right]_{0}^{d} = \frac{1}{3} m d^{2}$$

$$\frac{I_{z} = m k^{2}}{\sum_{i=1}^{l} Z_{i} m_{i} R_{i}^{2}}$$

k-raggio ginatore