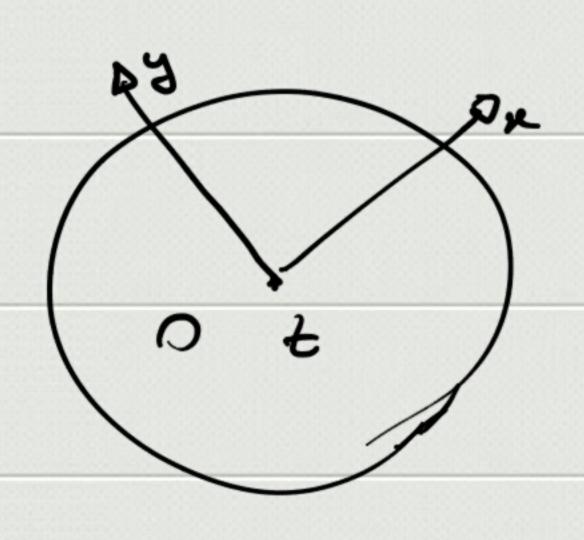
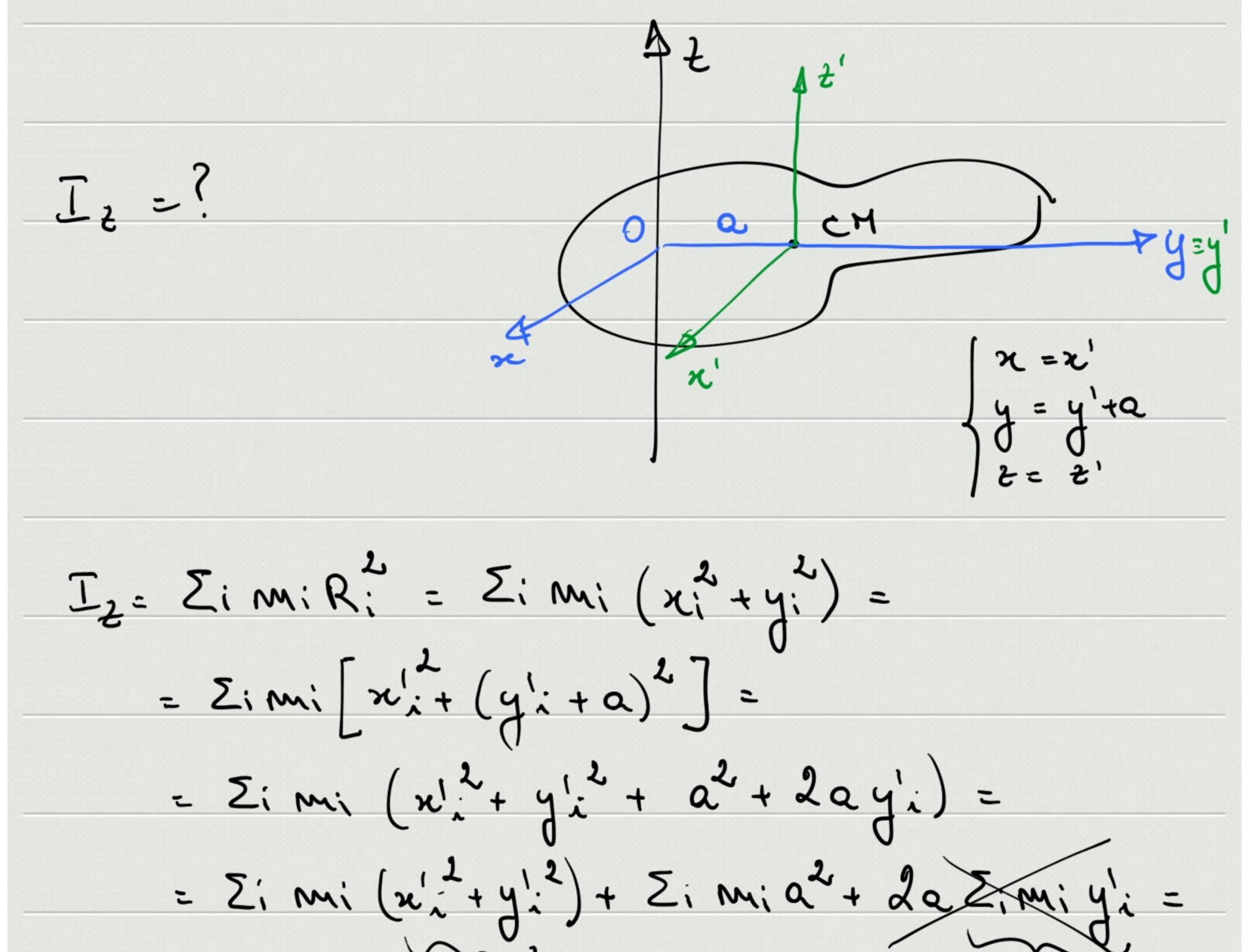


$$\overline{I}_{z} = \int (x^{2} + y^{2}) dm$$

$$\overline{I}_{x} = \int R_{x}^{2} dm = \int (y^{2} + z^{2}) dm = \int y^{2} dm$$

$$Ty = \int R_y^2 dm = \int (x^2 + z^2) dm = \int x^2 dm$$





IIz = Iz + ma² Teoremo di Huypens Steiner

= Iz1 + ma2

a
$$D = \frac{1}{2} \cdot \int R^2 dm$$

$$D = \frac{1}{2} \cdot \int R^2 dm$$

$$T_2 = \int dT_2$$

$$\left[T_{\text{observe}} = \frac{1}{12} \text{ m d}^2\right]$$

$$= \int \left(\frac{1}{12} dm a^2 + \kappa^2 \rho_S dS\right) =$$

$$= \int \left(\frac{1}{12} dm a^{2} + x^{2} \rho_{S} dS\right) =$$

$$= \int \frac{1}{12} a^{2} dm + \int x^{2} \frac{nw}{ab} a dx =$$

$$= \int \frac{1}{12} a^{2} dm + \int x^{2} \frac{nw}{ab} a dx =$$

$$= \frac{1}{12} ma^{2} + \frac{m}{5} \left[\frac{x^{3}}{3} \right]_{-6/2}^{5/2} =$$

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

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

uncio sottile

$$T_2 = \int dT_2 = \int (dT_2 + x^2 dm) =$$

$$= \int \left(\frac{1}{2} dm R^2 + x^2 dm \right) = \frac{1}{2} R^2 m + \int x^2 dm =$$

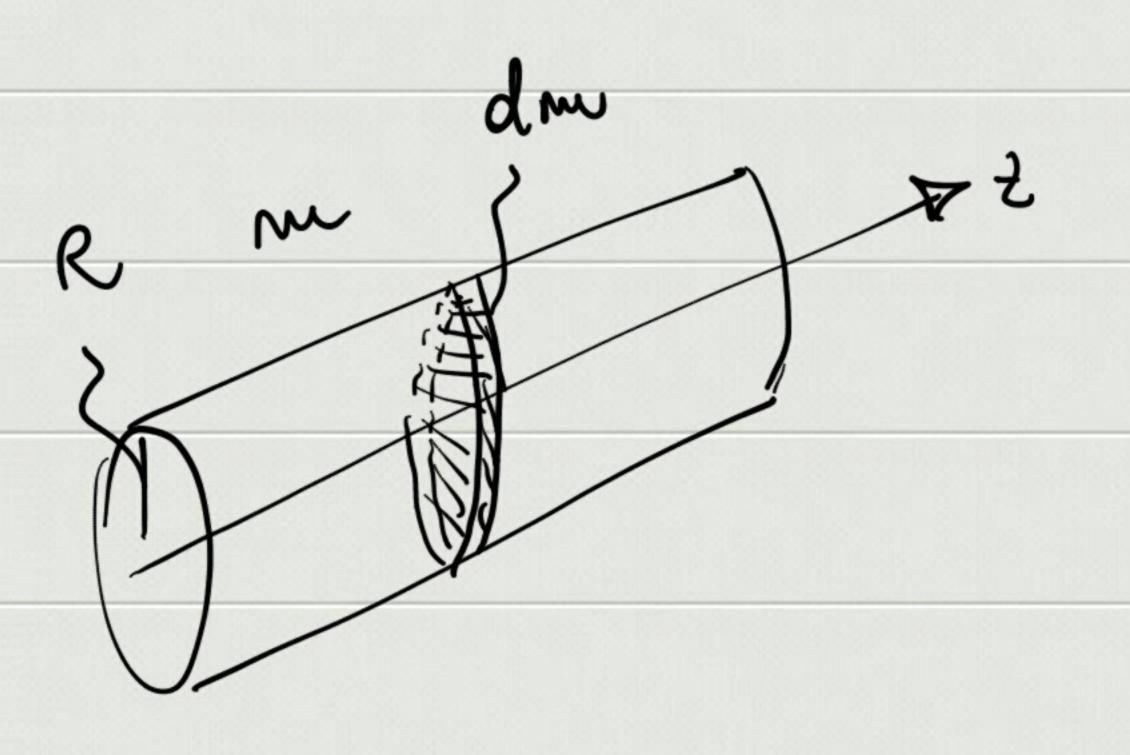
$$dm = \rho_S dS = \frac{m}{2\pi R d} 2\pi R dx = \frac{m}{d} dx$$

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

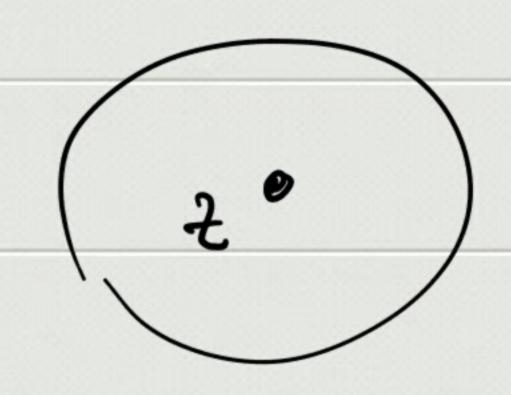
$$=\frac{1}{2}mR^2+\int x^2\frac{m}{d}dx=$$

$$= \frac{1}{2} m R^2 + \frac{m}{d} \left[\frac{x^3}{3} \right]_{d/2}^{a/2} =$$

$$= \frac{1}{2} m R^2 + \frac{m}{3} \frac{d^2}{d} = \frac{1}{2} m R^2 + \frac{1}{12} m d^2$$



$$\overline{I}_{z} = \int d\overline{I}_{z} = \int \frac{1}{2} dm R^{2} = \frac{1}{2} R^{2} \int dm = \frac{1}{2} m R^{2}$$
cieinsho disco



$$e \left[\frac{1}{2} \right] = \frac{1}{2} m \left(e^2 + e^2 \right)$$