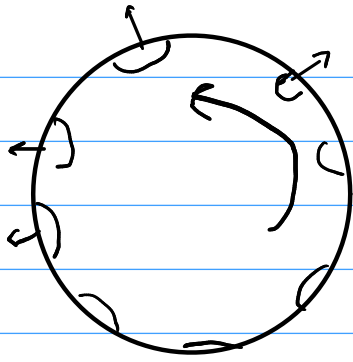


$$\vec{F} = -\vec{\nabla}\phi$$

$$\vec{B}$$

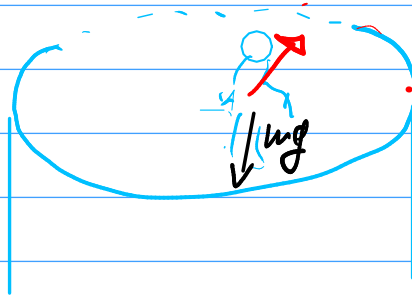
$$\vec{\pi}$$

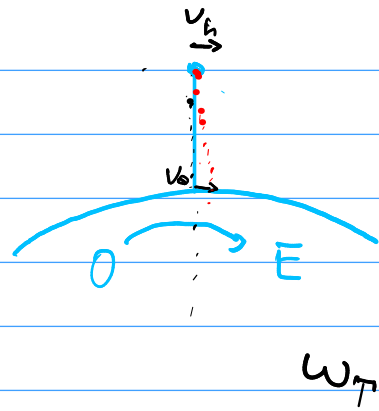
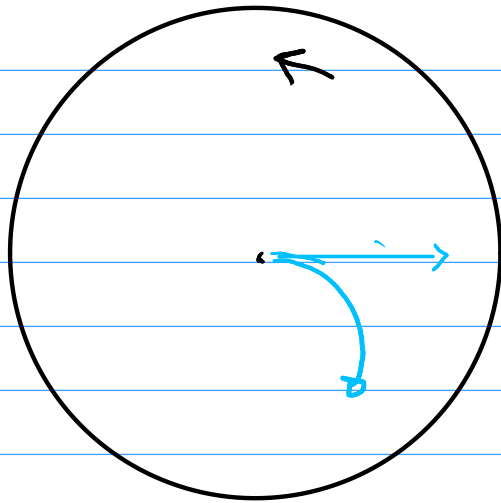
$$\vec{\pi} = m\vec{v} + q\vec{A} + q\vec{v} \wedge \vec{B}$$



"ROTOR"

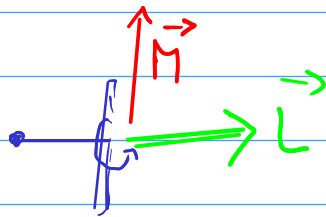
$$\vec{A}_S = \mu_S \vec{\omega}$$





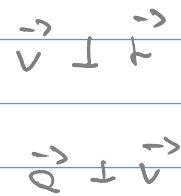
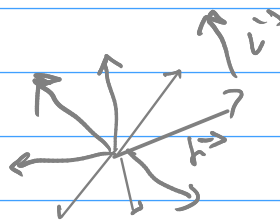
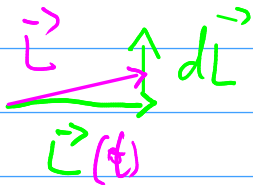
$$v_0 = \omega \cdot R_{\pi}$$

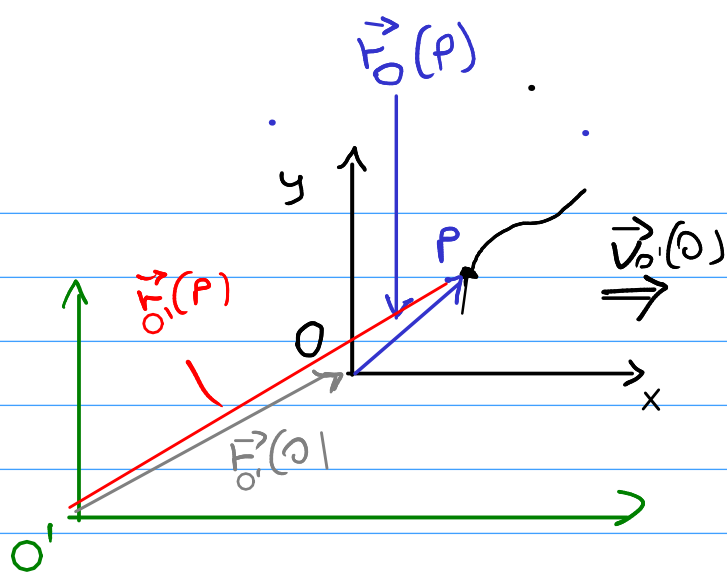
$$v_h = \omega (R_{\pi} + h)$$



$$\vec{L}(t+dt)$$

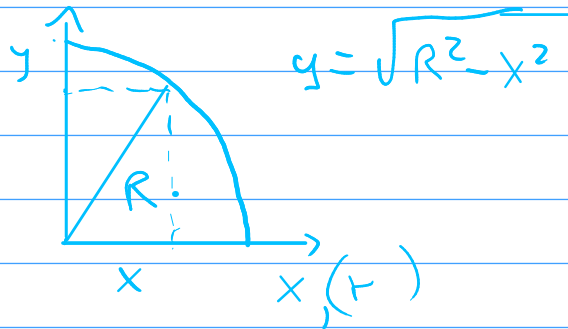
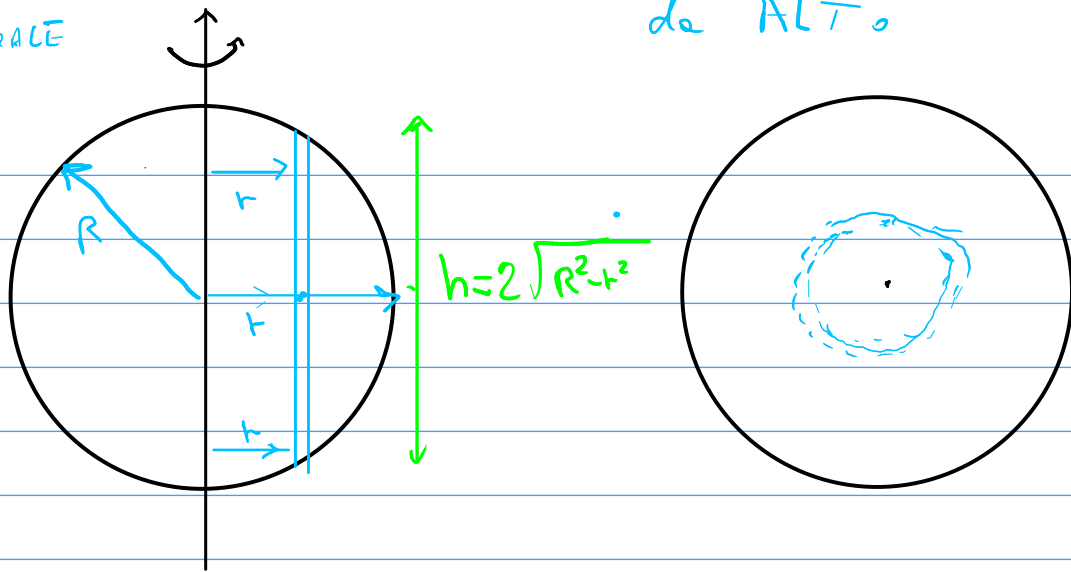
$$d\vec{L} = \vec{M} dt$$





LATERALE

da ALTO



$$dI = dm \cdot r^2 = \rho dV \cdot r^2$$

$$= \rho (2\pi r) h dr r^2$$

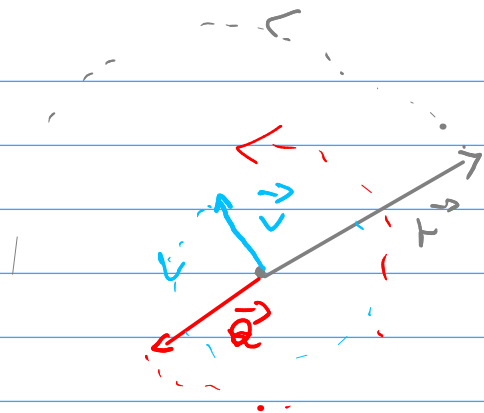
$$= \rho (2\pi r) (2\sqrt{R^2 - r^2}) dr r^2$$

$$= 4\pi \rho r^3 \sqrt{R^2 - r^2} dr$$

$$I = \int_0^R dI = 4\pi \rho \int_0^R r^3 \sqrt{R^2 - r^2} dr$$

$$= 4\pi \rho \frac{2}{15} R^5$$

$$= \underbrace{\frac{4}{3}\pi R^3}_V \rho \frac{2}{5} R^2 = \frac{2}{5} MR^2$$



$$|\vec{v}| \propto \omega$$

$$|\vec{Q}| \propto \omega^2$$

