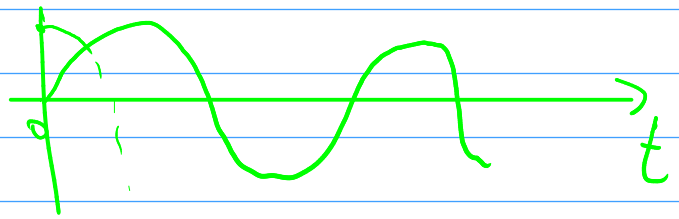
$$f(t) = A\cos(\omega \cdot t + \varphi)$$

$$g(t) = \frac{d}{dt} f(t) = -\omega A \sin(\omega t + \varphi)$$

$$\frac{d}{dt} g(t) = \frac{d^2}{dt^2} f(t) = -\omega^2 A \cos(\omega t + \varphi)$$

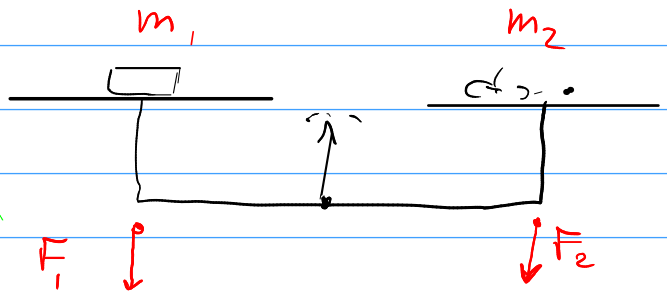
$$= -\omega^2 f(t)$$

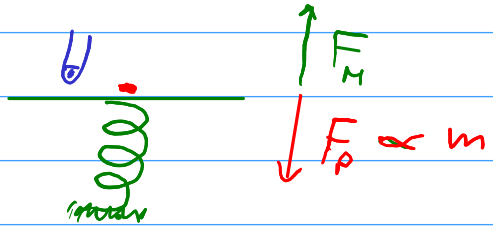
$$\frac{d^2 y}{dt^2} = -\omega^2 y$$



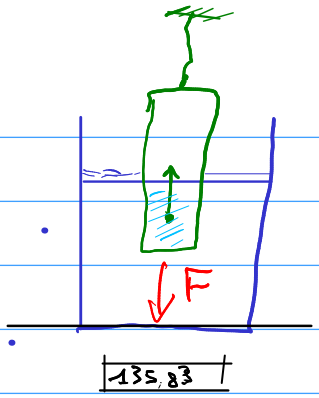
$$F = \frac{G M_T \cdot m}{R_T^2}$$

g





$$\rho = \frac{m}{V}$$



F_A

FLUIDO

$F_A = m_{H_2O} \cdot g$

$= \rho_{H_2O} \cdot V_{H_2O} \cdot g$

3°) $\vec{F}_A^{(B)} = -\vec{F}_B^{(A)}$