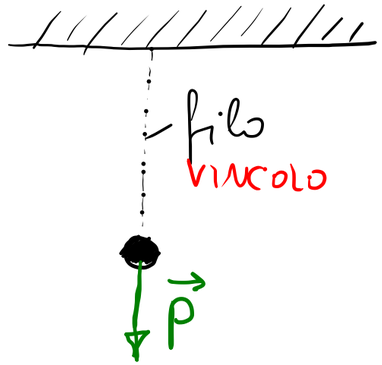
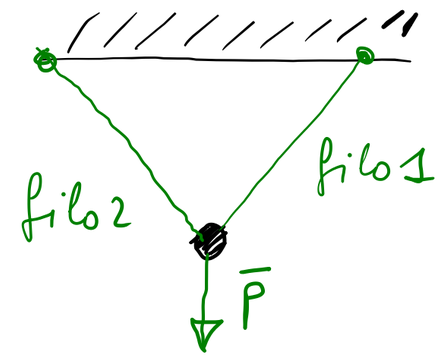
PUNTO MATERIALE

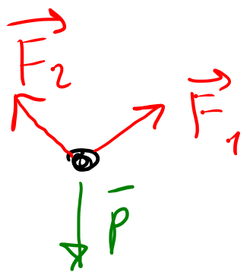


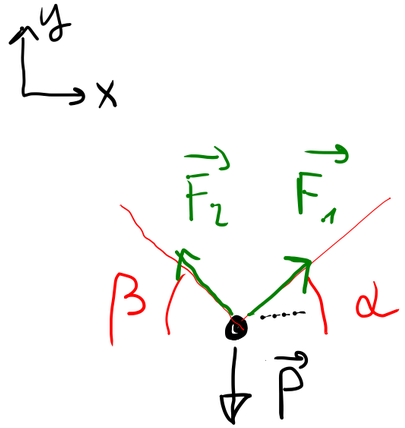
$|\vec{F}| = |\vec{P}|$

Σ delle forze $= 0$

$\Rightarrow$ EQUILIBRIO + QUIETE





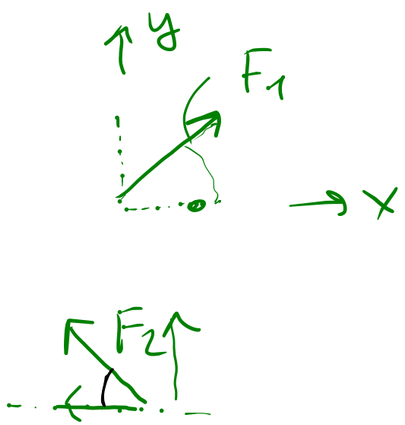


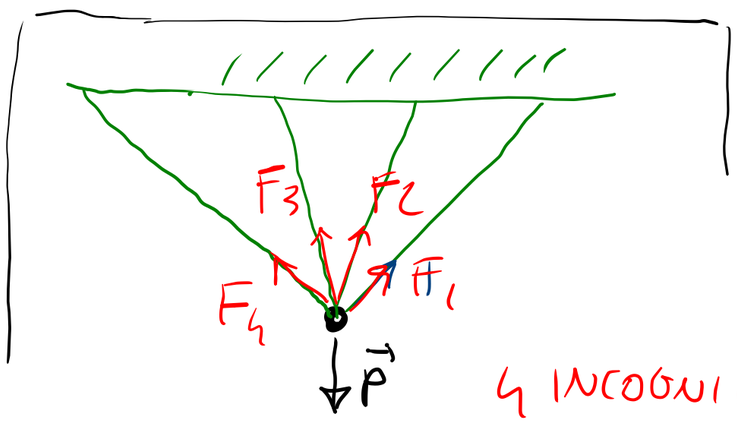
RIESCO A CALCOLARE LE INTENSITÀ DELLE FORZE $\vec{F}_1$ ed $\vec{F}_2$ UTILIZZANDO EQUAZIONI DI EQUILIBRIO NEL PIANO?

$$\underbrace{\sum_i \vec{F}_i = \vec{0}}_{\text{EQUILIBRIO}} \quad \begin{cases} \sum F_x = 0 & \rightarrow : F_1 \cos\alpha - F_2 \cos\beta = 0 \\ \sum F_y = 0 & +\uparrow : -100 + F_1 \sin\alpha + F_2 \sin\beta = 0 \end{cases}$$

SIST LIN. DI 2 EQ. IN 2 INC.

$|\vec{P}| = 100\ N$





⇒ SI CALCOLANO FACILMENTE I VALORI F_1 e F_2 CHE SODDISFANO IL SISTEMA.

4 INCOGNITE F_1, F_2, F_3, F_4 $\xrightarrow{y\uparrow}$ 2 EQ. ⇒ ∞^2 SOLUZIONI