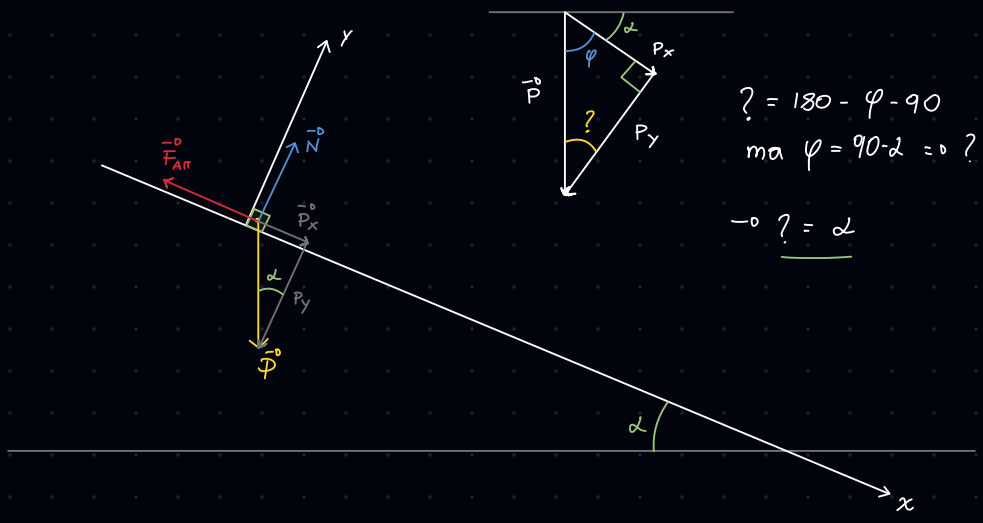
Piano Inclinato



$? = 180 - \varphi - 90$

ma $\varphi = 90 - \alpha \Rightarrow ? = 180 - (90 - \alpha) - 90$

$\Rightarrow ? = \alpha$

Asse x: $P_x - F_{A\pi} = m \cdot a_x$

Asse y: $\vec{N} - P_y = m \cdot a_y$

$\Rightarrow \begin{cases} mg \sin\alpha - \vec{F}_{A\pi} = m \cdot \vec{a}_x \\ N - mg\cos\alpha = m \cdot \vec{a}_y \end{cases}$

- $a_y = 0 \Rightarrow N - mg\cos\alpha = 0 \Rightarrow N = mg\cos\alpha$
- $F_{A\pi} = \mu \cdot N = \mu mg\cos\alpha \Rightarrow mg\sin\alpha - \mu mg\cos\alpha = m \cdot \vec{a}_x$

  $\Rightarrow g(\sin\alpha - \mu\cos\alpha) = \vec{a}_x \quad (1)$