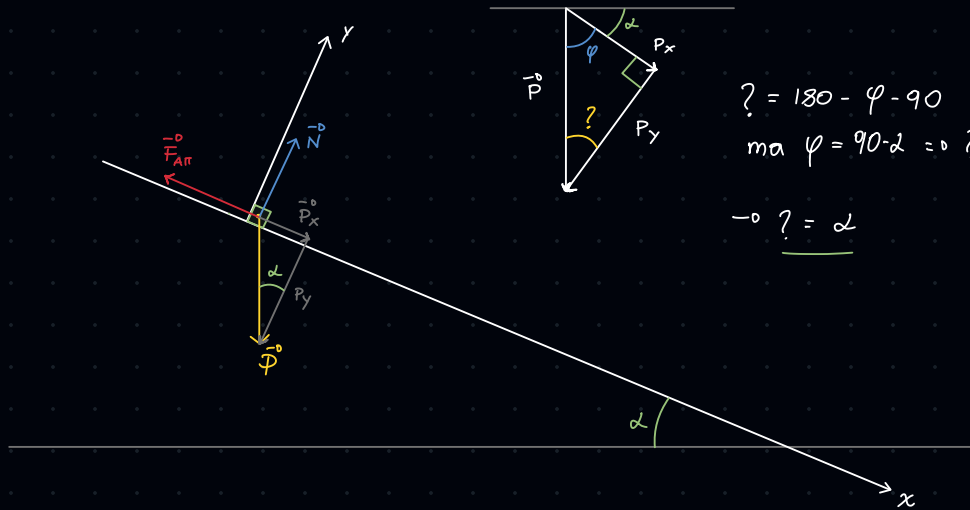


Piano Inclinato



$$? = 180 - \varphi - 90$$

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

$$\Rightarrow ? = \alpha$$

$$\begin{aligned} \text{Asse } x: & \begin{cases} P_x - F_{Atr} = m \cdot a_x \\ \bar{N} - P_y = m \cdot a_y \end{cases} \quad \Rightarrow \quad \begin{cases} m \bar{g} \sin \alpha - \bar{F}_{Atr} = m \cdot \bar{a}_x \\ N - m \bar{g} \cos \alpha = m \cdot \bar{a}_y \end{cases} \end{aligned}$$

$$\bullet \quad a_y = 0 \Rightarrow N - m \bar{g} \cos \alpha = 0 \Rightarrow N = m \bar{g} \cos \alpha$$

$$\bullet \quad F_{Atr} = \mu \cdot N = \mu m \bar{g} \cos \alpha \Rightarrow m \bar{g} \sin \alpha - \mu m \bar{g} \cos \alpha = m \cdot \bar{a}_x$$

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