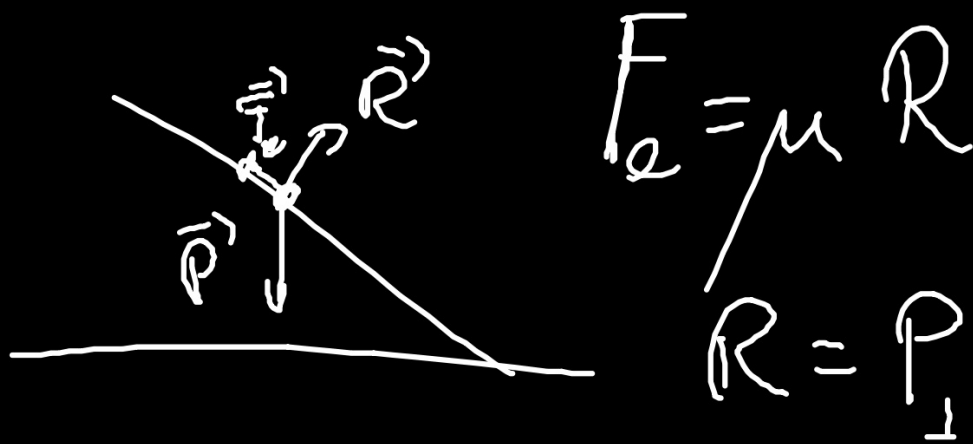


$$F_{R15} = P_{||} \quad m \cdot a = P_{||}$$

$$ma = mg \cdot \sin \alpha$$
$$a = g \cdot \sin \alpha$$



$$\vec{F}_{R_{15}} = m \cdot a = m g \sin \alpha - \mu m g \cos \alpha$$
$$a = g (\sin \alpha - \mu \cos \alpha)$$

$$\frac{a}{g} = \sin \alpha - \mu \cos \alpha$$

$$\mu \cos \alpha = \sin \alpha - \frac{a}{g}$$

$$\mu = \tan(\alpha) - \frac{a}{g \cos \alpha}$$

$$x(t) = x_0 + v_0 \cdot t + \frac{1}{2} a t^2$$

└┘

↑

A

$$a = 2A = -0.3 \cdot 2 \text{ m/s}^2$$

$$= -0.6 \text{ m/s}^2$$

$$\alpha \approx 0,67 \text{ rad}$$

$$g \cdot \underbrace{\sin \alpha}_{0,621} = 6,03 \frac{\text{m}}{\text{s}^2}$$

↓

$$\mu \neq 0$$

$$\mu = \frac{T \sin(\theta)}{mg \cos(\theta)}$$

$$= 0,793 - \frac{0,6 \text{ m/s}^2}{9,81 \text{ m/s}^2 \cdot 0,784} \approx 0,7$$