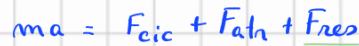


12

$$c_{\text{atn}} = 0,9$$

$$\rho_{\text{air}} = 1,225 \text{ Kg/m}^3$$

$$\hookrightarrow P = F \cdot v \Leftrightarrow F = \frac{P}{v}$$



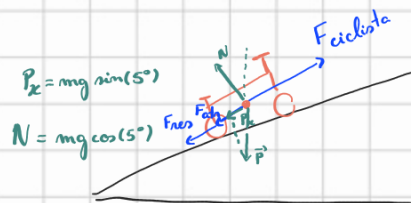
$$\Rightarrow a = \frac{1}{m} \left(\frac{P}{V} - \underbrace{N/\mu}_{\substack{\text{Force normal} \\ \text{pressure}}} - Dv^2 \right)$$

b) 23,566 n

$$\text{weiter: } a = \frac{1}{m} \left(\frac{P}{V} - N\mu - Dv^2 \times 0,01 \right) \Rightarrow v_T = 32,87 \text{ m/s}$$

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$$\sin 5^\circ = \frac{P_x}{P} \quad (\therefore) \quad P_x = mg \sin(5^\circ)$$



b) 4.258 m/s

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Consideramos a "potência a desenvolver" a Força = $\frac{P}{V}$