



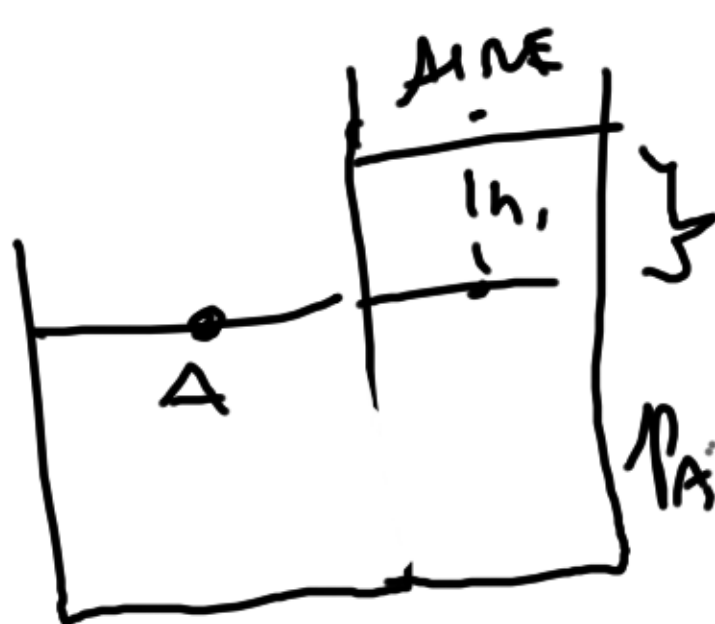
Alturas S'

$$1 \text{ in} = 2,54 \text{ cm}$$

pressão A

$$P_A = P_{\text{atm}} + \gamma_w h_w \Rightarrow P_{A, \text{man}} = \gamma_w h_w$$

$$P_{A, \text{man}} = 1.981 \text{ kPa}$$

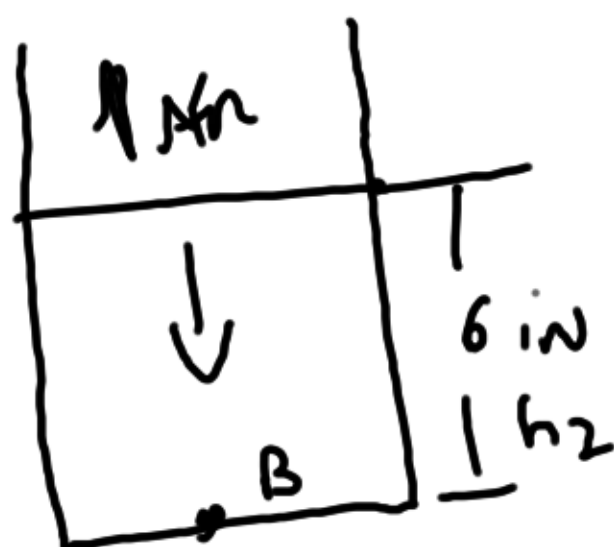


$$P_{\text{atm}} + P_{A, \text{man}} = h_1 \gamma_{\text{MB}} + P_{\text{Air}}$$

$$P_{A, \text{man}} + P_{\text{atm}} = h_1 \gamma_{\text{MB}} + P_{\text{Air}}$$

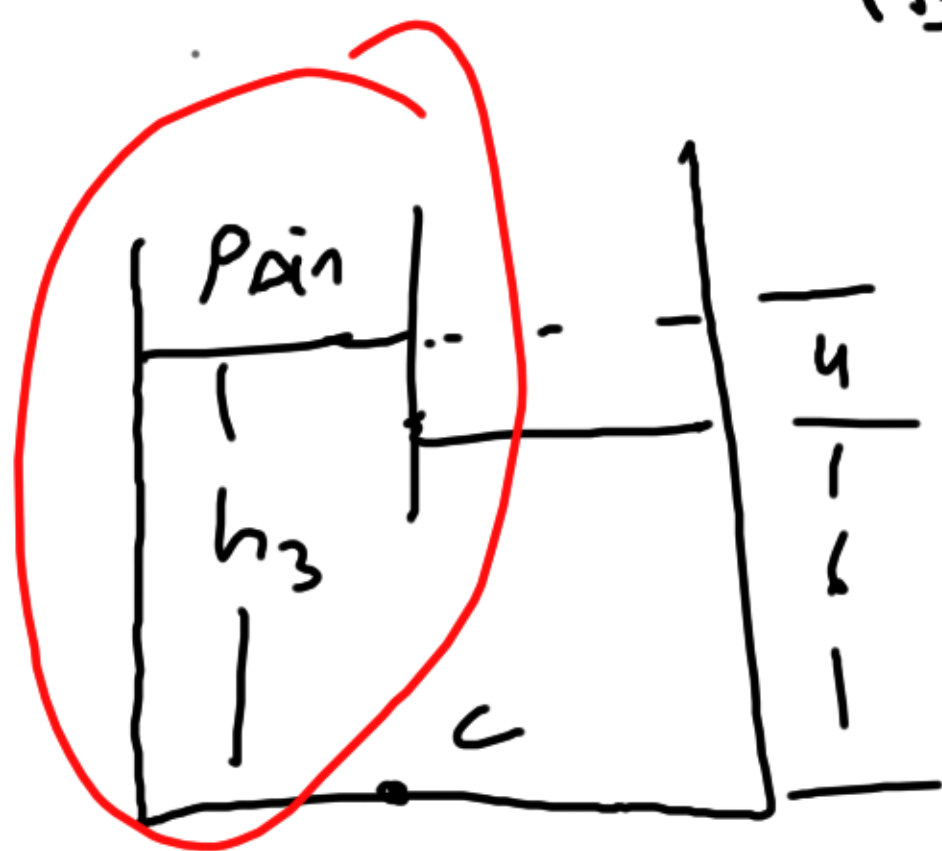
$$P_{\text{Air, man}} = P_{A, \text{man}} - h_1 \gamma_{\text{MB}}$$

$$P_{\text{Air, man}} = 0.24892 \text{ kPa}$$



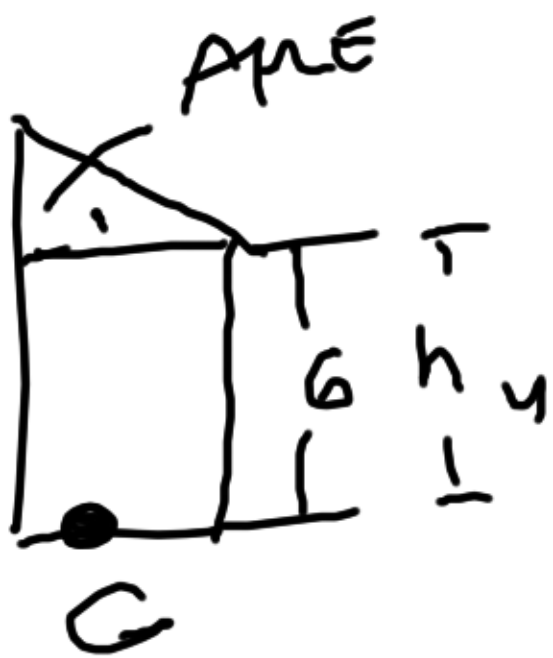
$$P_B = P_{\text{Air, man}} + P_{\text{atm}} + h_2 \gamma_{\text{MB}}$$

$$P_{B, \text{man}} = 3.49142 \text{ kPa}$$



$$P_C = (P_{\text{Air, man}} + P_{\text{atm}}) + \gamma_{\text{MB}} \cdot h_3$$

$$P_C = 4.605 \text{ kPa}$$



$$(P_C + P_{\text{atm}})$$

$$= P_{\text{atm, D}}$$

$$+ h_4 \gamma_{\text{MB}}$$

$$P_{\text{atm, D, man}} = P_C - h_4 \gamma_{\text{MB}}$$

$$= 1.9913 \text{ kPa}$$