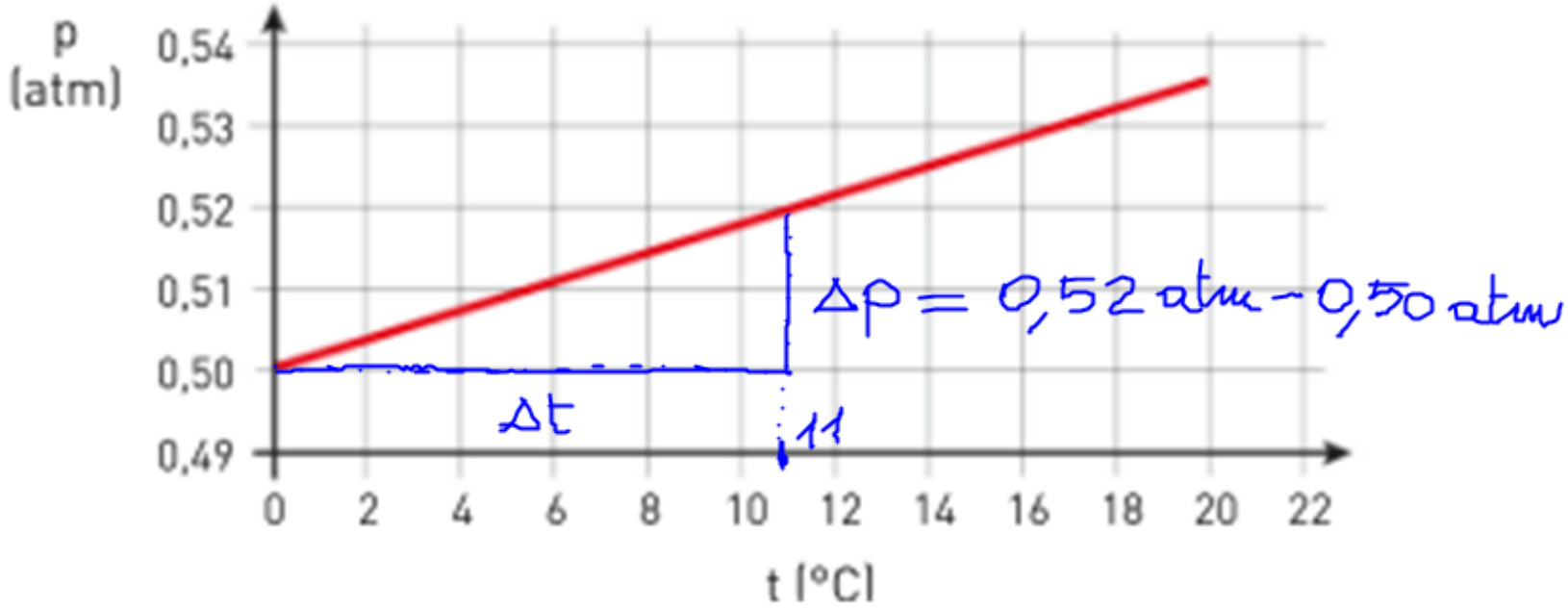
PAG. 637 N 61



COEFF. ANGOLARE $\dfrac{\Delta p}{\Delta t} = \dfrac{0{,}02\,\text{atm}}{11\,°C} = 0{,}0018\ \dfrac{\text{atm}}{°C}$

$$p = \left(0{,}0018\ \frac{\text{atm}}{°C}\right) t + 0{,}50\ \text{atm}$$

$$p = p_0 (1 + \alpha t)$$

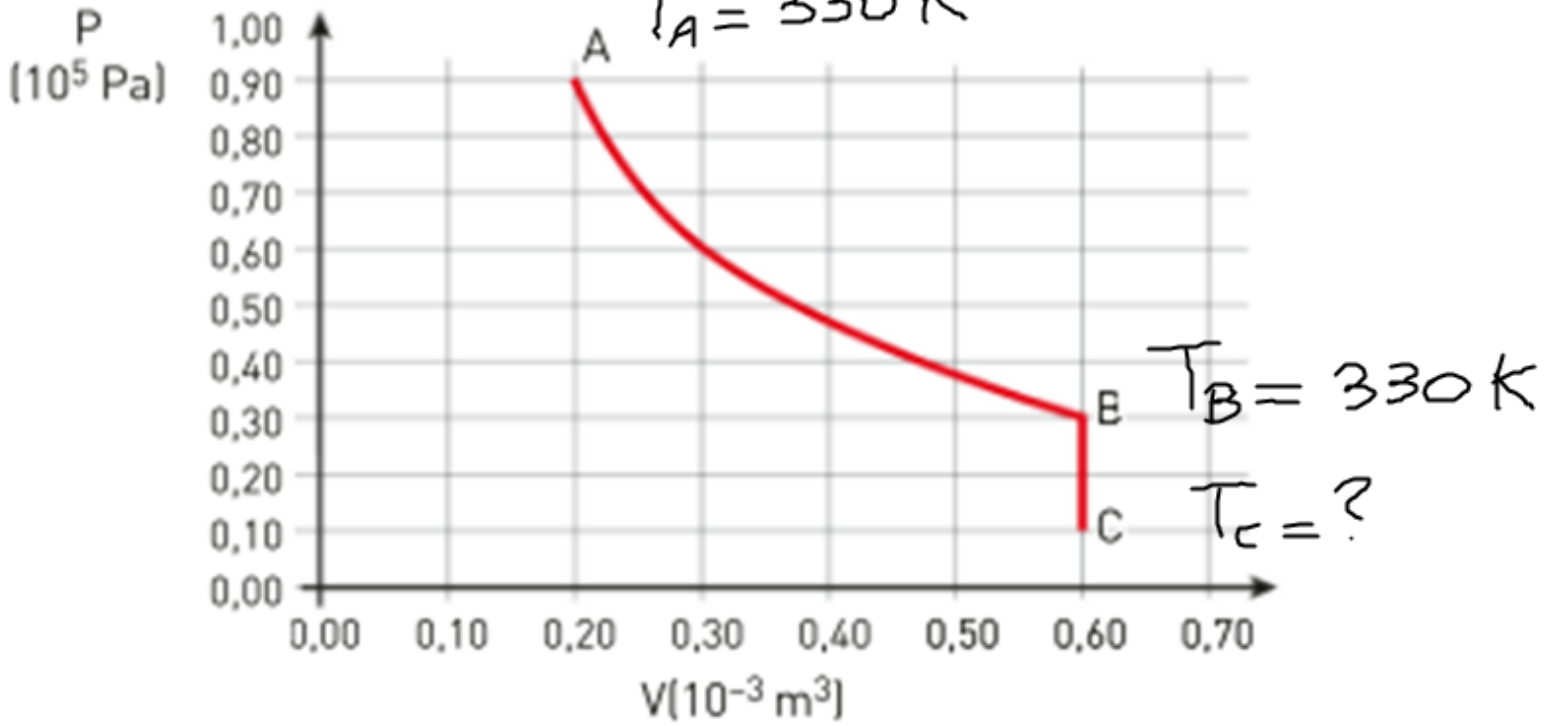
$$p = p_0 + \alpha p_0 t$$

m = COEFF. ANGOLARE

$$\alpha = \frac{1}{273\,°C} \qquad p_0 = 0{,}50\ \text{atm}$$

$$m = \alpha p_0 = \frac{0{,}50}{273}\ \frac{\text{atm}}{°C} \cong 0{,}0018\ \frac{\text{atm}}{°C}$$

PAG. 637 N 62



$T_A = 330\ K$

$T_B = 330\ K$

$T_C = ?$

$$P_B = \frac{T_B}{T_C} P_C$$

$$T_C = \frac{P_C}{P_B} T_B = \frac{0{,}10 \times 10^5 \cancel{P_a}}{0{,}30 \times 10^5 \cancel{P_a}} 330\ K = 110\ K$$