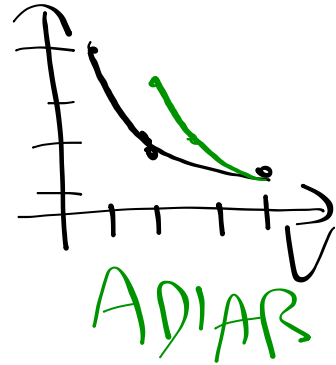


$$P \cdot V = nRT$$

$$P \cdot V = kT$$

$$\text{ISOTERMA: } P \cdot V = \text{cost}$$

NOUVE ADIABATICHU



$$P \cdot V^\gamma = \text{cost}$$

$$\gamma = \frac{C_p}{C_v} = \frac{n+2}{n}$$

$$(P \cdot V^\gamma = \text{cost})$$

$$\frac{P \cdot V}{T} = \text{cost}$$

$$T \cdot V^{\gamma-1} = \text{cost}$$

$$T \cdot P^{\frac{1-\gamma}{\gamma}} = \text{cost}$$

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$$PV = nRT$$

$$n = \frac{PV}{RT} = \frac{10^5 \text{ Pa} \cdot 10^{-1} \text{ m}^3}{8,314 \cdot 310} \rightarrow \boxed{3,9}$$

$$\frac{P_A V_A}{T_A} = \frac{P_C V_C}{T_C} \quad T_C = \frac{P_C V_C T_A}{P_A V_A}$$

$$T_C = 310 \text{ K} \cdot \frac{60}{100} \cdot \frac{0,4}{0,1} = 744 \text{ K}$$

$$L_{AB} = 0,3 \cdot 10^5 \text{ J} = 30 \text{ kJ}$$

$$L_{BC} = 0 / L_{CA} = -0,3 \cdot 80 \cdot 10^3 = -24 \text{ kJ}$$

$$L_Q = 6 \text{ kJ}$$

$$Q_Q = \text{''}$$

$$\Delta U = Q - L$$

$$\text{IN 1 CICLO } \Delta U = 0$$

$$\Rightarrow Q = L$$