

ΙΣΟΘΕΡΜΗ ΜΕΤΑΒΟΛΗ

$$T = \text{σταθ.} \quad \begin{array}{l} \text{ΑΡΧ.} \quad P_1, V_1, T \rightarrow P_1 V_1 = nRT \\ \text{ΤΕΛ.} \quad P_2, V_2, T \rightarrow P_2 V_2 = nRT \end{array}$$

$$\} \Rightarrow \boxed{P_1 \cdot V_1 = P_2 \cdot V_2} \quad P, V \text{ ΑΝΤ. ΑΝΑΛ.}$$

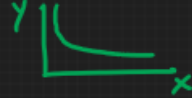
$$P_1 = 2 \xrightarrow{\times 9} P_2 = 8$$

$$V_1 = 1 \xrightarrow{\div 4} V_2 = \frac{1}{4}$$

$$\text{σταθ.} \quad P \cdot V = nRT \Rightarrow P \cdot V = \alpha \Rightarrow$$

$$P = \frac{\alpha}{V}$$

$$\boxed{y = \alpha/x}$$



AB ΙΣΟΘΕΡΜΗ ΣΤΑΘΕΡΗ

BA ΙΣΟΘΕΡΜΗ ΕΚΤΕΝΣΗ

ΙΣΟΚΩΡΗ ΜΕΤΑΒΟΛΗ

$$V = \text{σταθ.}$$

$$\begin{array}{l} \text{ΑΡΧ.} \quad P_1, V, T_1 \rightarrow P_1 V = nRT_1 \\ \text{ΤΕΛ.} \quad P_2, V, T_2 \rightarrow P_2 V = nRT_2 \end{array} \} \Rightarrow \boxed{\frac{P_1}{T_1} = \frac{P_2}{T_2}}$$

$$P \cdot V = nRT \Rightarrow P = \left(\frac{nR}{V} \right) \cdot T \Rightarrow \boxed{P = \alpha T}$$



AB ΙΣΟΚΩΡΗ ΘΕΡΜΑΝΣΗ
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ΙΣΟΒΑΡΗ ΜΕΤΑΒΟΛΗ $P = \text{σταθ.}$

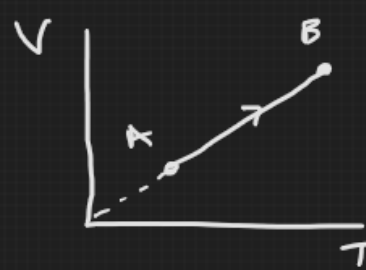


$$\text{ΙΣΟΡ} \Rightarrow \Sigma F = 0 \Rightarrow \frac{F_A}{A} = \frac{B + F_0}{A} \Rightarrow$$

$$\Rightarrow \boxed{P_{\text{αερίου}} = \frac{B}{A} + P_0} = \text{σταθ.}$$

$$\begin{array}{l} \text{ΑΡΧ.} \quad P, V_1, T_1 \rightarrow P \cdot V_1 = nRT_1 \\ \text{ΤΕΛ.} \quad P, V_2, T_2 \rightarrow P \cdot V_2 = nRT_2 \end{array} \} \Rightarrow \boxed{\frac{V_1}{T_1} = \frac{V_2}{T_2}}$$

$$P \cdot V = nRT \Rightarrow V = \left(\frac{nR}{P} \right) T \Rightarrow \boxed{V = \alpha \cdot T}$$



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