

Απαντήσεις Β' Λυκείου Κατεύθυνση

A₁ - δ

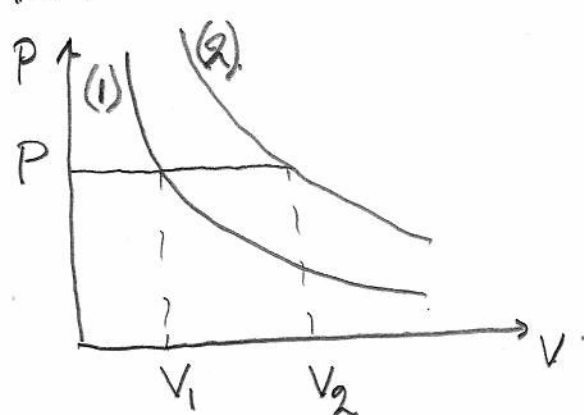
A₂ - β

A₃ - β

A₄ - β

A₅ - Σ, Λ, Ζ, Ξ, Α

B₁.



$$PV_1 = n_1 RT \Rightarrow \frac{V_1}{V_2} = \frac{n_1}{n_2} \Rightarrow$$

$$PV_2 = n_2 RT$$

$$n_2 > n_1$$

σωστό το (γ).

B₂ $F_{\text{κέντ}} = \frac{mU^2}{R} \Rightarrow F'_{\text{κέντ}} = \frac{mU'^2}{R} = \frac{m(2U)^2}{R} = \frac{4mU^2}{R} = 4F_{\text{κέντ}}$

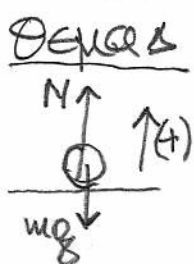
σωστό το (α).

Θέμα Γ.

A. $P_{\text{κέντ}} = P_{\text{ατμ}} + \frac{w}{A} = 1,2 \cdot 10^5 \frac{\text{N}}{\text{m}^2}$

B. $\frac{V_1}{T_1} = \frac{V_2}{T_2} \Rightarrow T_2 = T_1 \cdot \frac{V_2}{V_1} = T_1 \cdot \frac{A h_2}{A h_1} = 4T_1 = 1200 \text{ K}$

Γ. $\frac{v_{\text{ερ}1}}{v_{\text{ερ}2}} = \frac{\sqrt{\frac{3T_1}{Mr}}}{\sqrt{\frac{3T_2}{Mr}}} = \sqrt{\frac{T_1}{T_2}} = \sqrt{\frac{300}{1200}} = \frac{1}{2} \Rightarrow v_{\text{ερ}2} = 600 \text{ m/s}$



A. $P = wU = 0,1 \cdot 10 = 1 \text{ kgm/s}$

$P' = wU' = 0,18 = 0,18 \text{ kgm/s}$

B. $\Delta P = P' - P = 0,8 - (1) = -1,8 \text{ kgm/s}$

Γ. $\Sigma F = \frac{\Delta P}{\Delta t} \Rightarrow N - w_g = \frac{\Delta P}{\Delta t} \Rightarrow$

$N = w_g + \frac{\Delta P}{\Delta t} = 1 + 18 = 19 \text{ N}$