

**Subiectul B. ELEMENTE DE TERMODINAMICĂ**

<b>III.a.</b>	$\gamma = \frac{C_V + R}{C_V}$ $C_V = \frac{R}{\gamma - 1}$ <p>Rezultat final: <math>C_V = 20,775 \frac{\text{J}}{\text{mol} \cdot \text{K}}</math></p>
<b>b.</b>	$\Delta U_{AB} = \nu C_V (T_B - T_A)$ $T_A = \frac{p_A V_A}{\nu R}$ $T_B = T_A$ <p>Rezultat final: <math>\Delta U = 0</math></p>
<b>c.</b>	$L = \frac{1}{4} p_A V_A$ <p>Rezultat final: <math>L = 1038,75 \text{ J}</math></p>
<b>d.</b>	$Q_{CA} = \nu C_V (T_A - T_C)$ $C_V = \frac{R}{\gamma - 1}$ $T_C = \frac{T_A}{2}$ <p>Rezultat final: <math>Q_{CA} = 5,2 \text{ kJ}</math></p>