

**Subiectul B. ELEMENTE DE TERMODINAMICĂ**

<b>III. a.</b>	$\frac{p_1}{V_1} = \frac{p_2}{V_2}$ $V_2 = V_3$ <p>Rezultat final: <math>\frac{V_3}{V_1} = 1,5</math></p>
<b>b.</b>	$\Delta U_{13} = \nu C_V (T_3 - T_1)$ <p>Rezultat final: <math>\Delta U_{13} = -1558,125 \text{ J}</math></p>
<b>c.</b>	$L_{12} = \frac{(p_1 + p_2)(V_2 - V_1)}{2}$ <p>Rezultat final: <math>L_{12} = 1558,125 \text{ J}</math></p>
<b>d.</b>	$Q_{123} = \Delta U_{13} + L_{12} + L_{23}$ <p>Rezultat final: <math>Q_{13} = 0</math></p>