Subiectul B. ELEMENTE DE TERMODINAMICĂ

III.a.	Reprezentare corectă
b.	$\gamma = \dfrac{C_V + R}{C_V} \Rightarrow C_V = \dfrac{5R}{2}$ $\Delta U_{12} = \upsilon C_V (T_2 - T_1)$ Rezultat final: $\Delta U_{12} = $ -5000 J
c.	$L_{12} = p_1 (V_2 - V_1)$ $\dfrac{V_1}{T_1} = \dfrac{V_2}{T_2}$ $L_{12} = -\dfrac{2}{3} p_1 V_1$ Rezultat final: $L_{12} = -2000\,\text{J}$
d.	$Q_{pr} = Q_{23} + Q_{31}$ $Q_{pr} = \upsilon R T_2 \ln \dfrac{V_1}{V_2} + \dfrac{5}{2} \upsilon R (T_1 - T_2)$ Rezultat final: $Q_{pr} = 6100\,\text{J}$