Subiectul B. ELEMENTE DE TERMODINAMICĂ

III. a.	
	$\frac{V_2}{V_1} = \frac{V_3}{V_2} = 3, \frac{V_4}{V_3} = \frac{V_1}{V_4} = \frac{1}{3}$
b.	$Q_{12} = vC_p \cdot 2T$ $\Delta U_{34} = -vC_V \cdot 2T$ Rezultat final: $\Delta U_{34} = -120 \text{ J}$
C.	$L_{12} = 3p \cdot \frac{2}{3}V = 2pV$ $L_{34} = p \cdot (-2V) = -2pV$ Rezultat final: $L_{12} + L_{34} = 0$
d.	$Q_{23} = 3vRT \ln 3$ $Q_{12} = v\frac{5}{2}R \cdot 2T = 5vRT$
	Rezultat final: $Q_{pr} = 332 J$