Subiectul B. ELEMENTE DE TERMODINAMICĂ

III.a.	
	1-2 – proces adiabatic
	2-3 – proces izocor
	3-4 – proces adiabatic
	4-1 – proces izocor
b.	
	$U_2 = vC_V T_2$
	$\Delta U_{12} = -L_{12}$
	$U_2 = U_1 - L_{12}$
	Rezultat final: $U_2 = 24,93 \text{ kJ}$
C.	
	$Q_{23} = vC_{V}(T_3 - T_2)$ $T_2 = \frac{U_2}{vC_{V}}$
	$\tau = U_2$
	$\frac{\rho_2}{T_2} = \frac{\rho_3}{T_3}$
	$\overline{T_2} - \overline{T_3}$
	Rezultat final: Q ₂₃ = 49,86 kJ
d.	
	$Q_{23} = vC_V(T_3 - T_2) = T_3 - T_2$
	$\frac{Q_{23}}{Q_{41}} = \frac{vC_{V}(T_3 - T_2)}{vC_{V}(T_1 - T_4)} = \frac{T_3 - T_2}{T_1 - T_4}$
	Rezultat final: $T_4 = 900 \text{ K}$