## Subiectul B. ELEMENTE DE TERMODINAMICĂ

NECTUI B. ELEMENTE DE TERMODINAMICA	
III.a.	$p_1 = p_2$
	$\frac{p_1 V_1}{T_1} = \frac{p_2 V_2}{T_2}$
	$\frac{T_1}{T_1} - \frac{T_2}{T_2}$
	Rezultat final: $\frac{T_1}{T_2} = 2$
b.	$\frac{U_3}{U_1} = \frac{vC_V T_3}{vC_V T_1}$
	$\frac{T_3}{T_1} = \frac{p_3}{p_2} = 2$
	$T_1$ $p_2$
	Rezultat final: $\frac{U_3}{U_2} = 2$
	$\frac{1}{U_2}$
c.	$Q_{23} = \nu C_{23} (T_3 - T_2)$
	$\Delta U_{23} = \nu C_V (T_3 - T_2)$
	$Q_{23} \ \ \ \ \ C_{23}$
	$\frac{Q_{23}}{\Delta U_{23}} = \frac{C_{23}}{C_V}$
	$C_V + R \rightarrow C - 3R$
	$\gamma = \frac{C_V + R}{C_V} \Rightarrow C_V = \frac{3R}{2}$
	Rezultat final: $\frac{Q_{23}}{\Delta U_{23}} = \frac{4}{3}$
	Nezultat IIIai. $\frac{\Delta U_{23}}{\Delta U_{23}} = \frac{1}{3}$
d.	
	$\frac{L_{12}}{L_{34}} = \frac{\rho_2(V_2 - V_1)}{\rho_3(V_2 - V_1)}$
	$\frac{L_{34}}{\rho_3(V_2-V_1)}$
	Rezultat final : $\frac{L_{12}}{L} = \frac{1}{2}$
	$L_{34} = \frac{1}{2}$