Subiectul B. ELEMENTE DE TERMODINAMICĂ

III. a.	$\frac{V_2}{V_1} = 1$, $\frac{V_3}{V_2} = 4$, $\frac{V_4}{V_3} = \frac{1}{2}$, $\frac{V_1}{V_4} = \frac{1}{2}$
b.	$Q_{41} = -vRT \ \ell n2 ,$ $Q_{23} = 2 vRT \ \ell n4 = 4 vRT \ \ell n2$ Rezultat final: $Q_{41} = -50 J$
C.	$Q_{12} = vC_VT$ $Q_{34} = -vC_pT$ Rezultat final: $x = \frac{Q_{12}}{Q_{34}} = -\frac{3}{5} = -0.6$
d.	$\Delta U_{12} = vC_VT$ $\Delta U_{34} = -vC_VT$ Rezultat final: $y = \frac{\Delta U_{12}}{\Delta U_{34}} = -1$