

Subiectul B. ELEMENTE DE TERMODINAMICĂ

III. a.	$\frac{p_2}{p_1} = \frac{p_3}{p_2} = 2, \quad \frac{p_4}{p_3} = \frac{1}{4}, \quad \frac{p_1}{p_4} = 1$
b.	$Q_{41} = -\nu C_V \cdot 2T$ $Q_{23} = \nu C_V \cdot 2T$ <p>Rezultat final: $Q_{41} = -150 \text{ J}$</p>
c.	$L_{12} = \nu R \cdot T \ln 3$ $L_{34} = \nu R \cdot 3T \ln \frac{1}{3}$ <p>Rezultat final: $x = \frac{L_{12}}{L_{34}} = -\frac{1}{3}$</p>
d.	$\Delta U_{23} = \nu C_V \cdot 2T$ $\Delta U_{41} = -\nu C_V \cdot 2T$ <p>Rezultat final: $y = \frac{\Delta U_{23}}{\Delta U_{41}} = -1$</p>