

Subiectul B. ELEMENTE DE TERMODINAMICĂ

III.a.	$F_p = F_{p0} + G$ $p = p_0 + \frac{mg}{S}$ Rezultat final: $p = 1,5 \cdot 10^5 \text{ N/m}^2$
b.	$L = p\Delta V$ $\Delta V = h \cdot S$ Rezultat final: $h = 0,40 \text{ m}$
c.	$\Delta U = \nu C_V \Delta T$ $L = \nu R \Delta T$ Rezultat final: $\Delta U = 90 \text{ J}$
d.	$Q = \nu C_V (T_3 - T_2)$ $\frac{V_1}{T_1} = \frac{1,5V_1}{T_2}$ $\frac{p}{T_2} = \frac{p}{2T_3}$ Rezultat final: $Q = -135 \text{ J}$