Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$N = N_A \frac{m}{\mu}$ Rezultat final: $N = 6{,}02 \cdot 10^{25}$ molecule
b.	$p_0 V = \frac{m}{\mu} RT$ $V = \frac{m}{\mu} \frac{RT}{p_0}$ Rezultat final: $V = 0{,}25\ \text{m}^3$
c.	$V_1 = \frac{mRT}{\mu p_0}$ Rezultat final: $V_1 = 0{,}332\ \text{m}^3$
d.	$\begin{cases} p_0 V = \nu RT \\ p_0 V' = \nu R(T + \Delta T) \end{cases}$ $\frac{\Delta\rho}{\rho_0} = \frac{-\Delta T}{T + \Delta T}$ Rezultat final: $\frac{\Delta\rho}{\rho_0} = -25\,\%$