Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	
	$n = \dfrac{N}{V_1}$ $\upsilon = \dfrac{N}{N_A}$, $\upsilon = \dfrac{m}{\mu}$ Rezultat final: $n = 12,046 \cdot 10^{25}\, \text{m}^{-3}$
b.	$p_1 V_1 = \dfrac{m}{\mu} RT_1$ $\dfrac{p_1}{V_1} = \dfrac{p_2}{V_2}$ $p_2 = \dfrac{V_2}{V_1} \cdot \dfrac{mRT_1}{\mu V_1}$ Rezultat final: $p_2 \cong 13,3 \cdot 10^5\, \text{Pa}$
c.	$p_2 V_2 = \dfrac{m}{\mu} RT_2$ Rezultat final: $T_2 = 1600\text{K}$
d.	$\rho_3 = \dfrac{m}{V_3}$, $V_3 = V_2$ Rezultat final: $\rho = 3,2\,\text{kg/m}^3$