Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	
	$pV = \dfrac{m_1}{\mu}RT_1$ $p = \dfrac{\rho RT_1}{\mu}$ Rezultat final: $p = 2 \cdot 10^6$ Pa
b.	$\rho = \dfrac{m_1}{V}$ Rezultat final: $m_1 \cong 2$ kg
c.	$pV = \dfrac{N_1}{\mu}RT_1$ $pV = \dfrac{N_2}{\mu}RT_2$ $N_2 = \dfrac{m}{\mu} \cdot \dfrac{T_1}{T_2}$ Rezultat final: $N_2 = 4 \cdot 10^{25}$
d.	$m_{0_{N_2}} = \dfrac{\mu}{N_A}$ Rezultat final: $m_{N_2} = 4{,}65 \cdot 10^{-23}$ g