Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$N = N_A \dfrac{m+3m}{\mu_{H_2}}$ Rezultat final: $N = 1{,}9 \cdot 10^{23}$
b.	$\begin{cases} p_1 V = \dfrac{m}{\mu} RT_1 \\ p_2 V = \dfrac{3m}{\mu} RT_2 \end{cases}$ $\dfrac{p_1}{p_2} = \dfrac{T_1}{3T_2}$ Rezultat final: $\dfrac{p_1}{p_2} = 0{,}25$
c.	$\begin{cases} p_1' V = \dfrac{m}{\mu} RT \\ p_2' V = \dfrac{3m}{\mu} RT \end{cases}$ Rezultat final: $\dfrac{p_1'}{p_2'} = \dfrac{1}{3} \cong 0{,}3$
d.	$\begin{cases} pV_1 = \dfrac{m}{\mu} RT \\ pV_2 = \dfrac{3m}{\mu} RT \end{cases}$ Rezultat final: $\dfrac{V_1}{V_2} = \dfrac{1}{3} \cong 0{,}3$