

Subiectul B. ELEMENTE DE TERMODINAMICĂ

II. a.	$pV = mRT/\mu$ $m = pV\mu/RT$ <p>Rezultat final $m \cong 106,9\text{g}$</p>
b.	$pV = \frac{N}{N_A} RT$ $n = \frac{N}{V}$ <p>Rezultat final $n = 2,5 \cdot 10^{26} \text{ m}^{-3}$</p>
c.	$v_i = pV/RT$ $(v_i - \Delta v) = \frac{pV}{5RT};$ <p>Rezultat final $\Delta v \cong 2,67 \text{ mol}$</p>
d.	$\bar{\mu} = m_{am}/v_{am}$ $m_{am} = v_{O_2}\mu_{O_2} + v_{H_2}\mu_{H_2}; v_{am} = v_1 + v_2$ <p>Rezultat final $\bar{\mu} = 15,5 \cdot 10^{-3} \text{ kg/mol}$</p>