

**Subiectul B. ELEMENTE DE TERMODINAMICĂ**

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| <b>II.a.</b> | $v_{O_2} = \frac{m_1}{\mu_{O_2}}$ <p>Rezultat final: <math>v_{O_2} = 25 \text{ mol}</math></p>   |
| <b>b.</b>    | $m_0 = \frac{\mu_{H_2}}{N_A}$ <p>Rezultat final: <math>m_0 = 3,32 \cdot 10^{-27} \text{ kg}</math></p>   |
| <b>c.</b>    | $N = vN_A$ $N = \left( \frac{m_1}{\mu_{O_2}} + \frac{m_2}{\mu_{H_2}} \right) \cdot N_A$ <p>Rezultat final: <math>N = 7,52 \cdot 10^{25}</math></p> |
| <b>d.</b>    | $\frac{V_2}{V_1} = \frac{m_2 \mu_{O_2}}{m_1 \mu_{H_2}}$ <p>Rezultat final: <math>V_2 / V_1 = 4</math></p>  |