

Subiectul B. ELEMENTE DE TERMODINAMICĂ

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| II.a. | $T = \frac{p_1 V_1}{\nu R}$ <p>Rezultat final: $T = 200\text{ K}$</p> |
| b. | $p_1 V_1 = p_2 \frac{V_1}{3}$ $\frac{p_2}{T_1} = \frac{p_3}{T_3}$ <p>Rezultat final: $T_3 = 2T_1 = 400\text{ K}$</p> |
| c. | $m_0 = \frac{\mu}{2N_A}$ <p>Rezultat final: $m_0 = 2,66 \cdot 10^{-23}\text{ g}$</p> |
| d. | $6p_1 V_2 = \nu R T_3$ $p_3 V_2 = (\nu - \Delta \nu) R T_3$ $\Delta \nu = \nu - \nu'$ <p>Rezultat final: $\Delta \nu = \frac{5}{6} = 0,83\text{ mol}$</p> |