

Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$v_i = (p_0 \cdot V)/(R \cdot T)$ <p>Rezultat final: $v_i \approx 1,24$ mol</p>
b.	$\rho_0 = \frac{m_0}{V}$ <p>Rezultat final: $m_0 = 39$ g</p>
c.	$p_0 V = \frac{m}{\mu} RT$ $pV = \frac{m + \Delta m}{\mu} RT$ $\Delta m = \frac{p_0 V \mu}{RT} \left(\frac{p}{p_0} - 1 \right)$ <p>Rezultat final: $\Delta m = 70,2$ g</p>
d.	$\Delta N = \Delta v \cdot N_A$ $\Delta v = v - v_1 \text{ unde } v_1 = (p \cdot V)/(R \cdot T_1)$ $\Delta N = \frac{p \cdot V}{R} \cdot \frac{T_1 - T}{T_1 \cdot T} \cdot N_A$ <p>Rezultat final: $\Delta N \approx 6,68 \cdot 10^{23}$</p>