

Subiectul B. Elemente de termodinamică

II.a.	$p \cdot V = \nu \cdot R \cdot T$ $\rho = \frac{p \cdot \mu}{R \cdot T}$ Rezultat final: $\rho = 7,7 \text{ kg/m}^3$
b.	$\nu = \frac{p \cdot V}{R \cdot T}$ Rezultat final: $\nu \cong 12,03 \text{ mol}$
c.	$m_0 = \mu \cdot \nu$ $m_f = \frac{p \cdot V \cdot \mu}{2 \cdot R \cdot T} = m/2$ $\Delta t = \frac{m \cdot \Delta t_0}{2 \cdot m_0}$ Rezultat final: $\Delta t \cong 48,12 \text{ min}$
d.	$m_2 = m - m_0 \cdot \Delta t_1 / \Delta t_0$ $p_1 = \frac{m_2 \cdot R \cdot T}{\mu \cdot V}$ Rezultat final: $p_1 \cong 5,2 \cdot 10^5 \text{ Pa}$