SUBI<u>ECTUL</u> B. ELEMENTE DE TERMODINAMICĂ

II a.	$\mu = m_0 N_A$
	Rezultat final: $m_0 = 4.6 \cdot 10^{-26} \text{kg}$
b.	$p_A V_A = \frac{m}{\mu_{O2}} R T_A$
	$\rho_B V_B = \frac{m}{\mu_{N2}} R T_B$
	$\frac{p_A}{p_B} = \frac{\mu_{N2}}{\mu_{O2}} \cdot \frac{T_A}{T_B} \cdot \frac{V_B}{V_A}$
	Rezultat final: $\frac{\rho_A}{\rho_B} = \frac{7}{12}$
c.	$\frac{p_A V_A}{T_A} = \frac{p_A^{'} V_A^{'}}{T}$
	$\frac{p_B V_B}{T_B} = \frac{p_B^{'} V_B^{'}}{T}$
	$p_A = p_B$
	Rezultat final: $\frac{V_A}{V_B} = \frac{7}{8}$
d.	$\frac{2m}{\overline{\mu}} = \frac{m}{\mu_{N2}} + \frac{m}{\mu_{O2}}$
	Rezultat final: $\overline{\mu}$ = 29,86 g/mol