Subiectul B. ELEMENTE DE TERMODINAMICĂ

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II.a.	
	$T = \frac{p_1 V_1}{\nu R}$
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Rezultat final: $T = 200 \mathrm{K}$
b.	$p_1V_1 = p_2 \frac{V_1}{3}$
	$p_1 V_1 = p_2 \frac{V_1}{3}$ $\frac{p_2}{T_1} = \frac{p_3}{T_3}$
	Rezultat final: $T_3 = 2T_1 = 400 \mathrm{K}$
C.	$m_0 = \frac{\mu}{2N_A}$
	Rezultat final: $m_0 = 2,66 \cdot 10^{-23} \text{ g}$
d.	$6\rho_1 V_2 = \nu R T_3$
	$\rho_3 V_2 = (\nu - \Delta \nu) R T_3$
	$\Delta v = v - v'$
	$6p_1V_2 = \nu RT_3$ $p_3V_2 = (\nu - \Delta \nu)RT_3$ $\Delta \nu = \nu - \nu'$ Rezultat final: $\Delta \nu = \frac{5}{6} = 0.83 \text{ mol}$