

Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$p_2 V_2 = \nu_2 RT$ $T = T_0 + \theta$ <p>Rezultat final: $\nu_2 = 2,5$ mol</p>
b.	$\mu = \frac{m_{\text{amestec}}}{\nu_{\text{amestec}}}$ $m_{\text{amestec}} = m_1 + m_2$ $m_1 = \nu_1 \mu_1, m_2 = \nu_2 \mu_2$ $\nu_{\text{amestec}} = \nu_1 + \nu_2$ <p>Rezultat final: $\mu_2 \approx 16$ g/mol</p>
c.	$p_{\text{amestec}} V_{\text{amestec}} = \nu_{\text{amestec}} RT$ $V_{\text{amestec}} = V_1 + V_2 \text{ și } \nu_{\text{amestec}} = \nu_1 + \nu_2$ <p>Rezultat final: $p_{\text{amestec}} = 5,05 \cdot 10^5$ Pa</p>
d.	$\Delta m = \nu_1' \mu_1 - \nu_1 \mu_1$ $\Delta m = \frac{\nu_{\text{am}}}{2} \mu - \nu_1 \mu_1$ <p>Rezultat final: $\Delta m = 19,95$ g</p>