

Subiectul B. ELEMENTE DE TERMODINAMICĂ

II a.	$p_B V_B = p_0 V_A = \nu RT_B$ $p_D V_D = \frac{p_0}{2} \cdot 2V_A = p_0 V_A = \nu RT_D$ <p>Rezultat final: $\frac{T_D}{T_B} = \frac{p_B V_B}{p_A V_A} = 1$</p>
b.	$p_C V_C = p_0 \cdot 2V_A = \nu RT_C$ $p_A V_A = \frac{p_0}{2} V_A = \nu RT_A$ <p>Rezultat final: $\frac{T_C}{T_A} = \frac{p_C V_C}{p_A V_A} = 4$</p>
c.	$pV = \nu RT$ $\nu = \frac{p_D V_D}{RT_D} = \frac{p_0 V_A}{RT_D}$ <p>Rezultat final: $\nu = 0,040 \text{ mol}$</p>
d.	$\rho_D = \frac{p_0 \mu}{2RT_D}$ $\rho_A = \frac{p_0 \mu}{2RT_A}$ <p>Rezultat final: $\frac{\rho_D}{\rho_A} = 0,5$</p>