Subiectul B. ELEMENTE DE TERMODINAMICĂ

II. a.	$m_{01} = \frac{\mu_{CO_2}}{N_A}$ $\mu_{CO_2} = 44$ g/mol Rezultat final: $m_{01} = 0,73 \cdot 10^{-25}$ kg
b.	$x_3 = \frac{p_3}{p_1} = \frac{\upsilon_3}{\upsilon}$ $\nu = \nu_1 + \nu_2 + \nu_3$ Rezultat final: $x_3 = 1,5\%$
c.	$\mu = \frac{\mu_1 V_1 + \mu_2 V_2 + \mu_3 V_3}{V}$ sau $\mu = \frac{m}{\nu} = \frac{\nu_1\mu_1 + \nu_2\mu_2 + \nu_3\mu_3}{\nu}$ Rezultat final: $\mu = 43,54 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
d.	$\rho = \frac{m}{V} = \frac{\mu p}{RT}$ sau $T = \frac{\mu p}{\rho R}$ Rezultat final: $T = 288,6$ K