Subjectul B. ELEMENTE DE TERMODINAMICĂ

<u></u>	A LILIMENTE DE TERMODITATION
II.a.	
	$\rho_1 V_1 = \nu_1 R T_1$
	$v_1 = \frac{p_1 V_1}{R T_1}$
	Rezultat final: $v_1 = 0.6 \text{mol}$
	Rezultat filial. $V_1 = 0,01101$
b.	$U_1 + U_2 = U_1 + U_2$
	$v_1C_VT_1 + v_2C_VT_2 = v_1C_VT + v_2C_VT$
	p_2V_2
	$v_2 = \frac{p_2 V_2}{R T_2}$
	Rezultat final $T \cong 309 \mathrm{K}$
C.	$p_2V_2 = v_2RT_2$
	$pV_1 = v'_1 RT$
	$pV_2 = v'_2 RT$
	$v_1 + v_2 = v'_1 + v'_2$
	$p = \frac{p_1 V_1 + p_2 V_2}{V_1 + V_2}$
	$V_1 + V_2$
	Rezultat final: $p = 2.42 \cdot 10^5 Pa$
d.	
	$v_f = \frac{\rho V_1}{RT}$
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	Rezultat final: $v_f = 0.47 \text{ mol}$