eure nº 1 Chimie 02 2022/2023 1) La dimension de R et sa voleur EXEL -> D'après la boi des goz par fuit: PV= nRT Pi Pressum I not de goz porfait dons les conditions V: Volume Stoudard: Vm= 22,4L n: nombre de mole T=0°C >273K. T: température P=1 atm R: constante des goz porfait. a) Ren latin/mol.k. R= PV = 1.22,4 = 9082 lotm/mol.K. b/ en J/mol.K. 1 ut - 1 bar = 1013. 1 Pag = 10 bor 1 h Ra = 103 bor 1 atm = 1,013.15 Pa = 76 mm Hg 1J= 1Pa. m3 22,4 L = 22,4.10 m3 $\Lambda \ell \rightarrow 10^3 \text{ m}^3$ 1m3 - 108 1 ml -> 1 cm3

$$R = \frac{PV}{n.T} = \frac{1,013.10.22,4.10}{1.273}$$

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$$m_2 = 1 \text{kg}$$
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$$T = T = \frac{\rho_1 x}{\rho_1 p} = \frac{\rho_2 tr}{\rho_2 p}$$

$$\frac{P_1}{p_1} = \frac{P_2}{p_2}$$

$$\frac{P_2 = \frac{P_1 \cdot n_2}{n_1}}{P_2 = \frac{P_1 \cdot M_1}{M_2}} = \frac{P_1 \cdot \frac{m_2}{M_2}}{\frac{m_1}{M_1}} = \frac{3 \cdot 32}{28} = \frac{3,42 \text{ atm}}{2}$$

$$\frac{P_{1}}{N_{1}} = \frac{P_{2}}{P_{1}}$$

$$\frac{P_{1}}{N_{1}} = \frac{P_{2}}{P_{2}}$$

$$n_{2} = \frac{P_{2} \cdot n_{1}}{P_{1}}$$

$$n_{3} = \frac{m_{2}}{M_{2}} = \frac{P_{2} \cdot m_{1}}{M_{1}}$$

$$m_{4} = \frac{P_{2} \cdot m_{1} \cdot M_{2}}{P_{1} \cdot M_{1}}$$

$$m_{5} = \frac{P_{2} \cdot m_{1} \cdot M_{2}}{P_{1} \cdot M_{1}}$$

$$m_{6} = \frac{P_{2} \cdot m_{1} \cdot M_{2}}{P_{1} \cdot M_{1}}$$

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$$m_{7} = \frac{P_{2} \cdot m_{1} \cdot M_{3}}{P_{$$

 $T_{2} = \frac{T_{1} \cdot P_{2}}{P_{1}}$ $T_{2} = \frac{(90^{2}, 2)^{3}}{21}$ T2=390,9°C T/, P/ Exoy T2=47,9°C H_2 | 0,4 mol | 0,6 mol | P=2 box + P=2 box 2) coloul de la fraction molaire. YHZ = nHZ = 0,4+0,6 = 0,4 $y_{02} = \frac{n_{02}}{n_T} = \frac{0.6}{94496} = 0.6$ b/ Les pression partielles:

b) Les pression parmelles:
loi de Dollton: $P_i = \chi_i P_T.$ $P = 94 \cdot 2 = 98.$

PH2= YId2. P= 94.2=98 box Po2 = yo. P==0,6.2=1,2 box