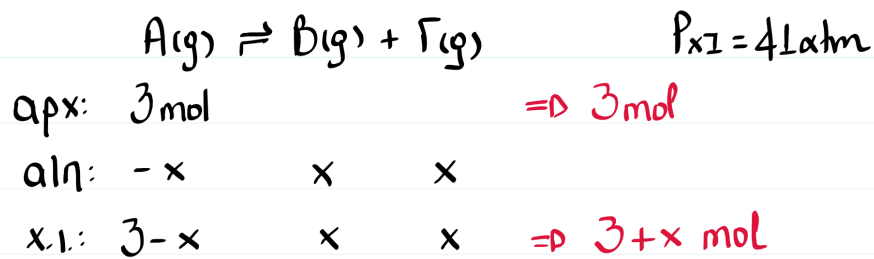


4.29.

$$V = 5 \text{ L} \quad 3 \text{ mol A} \quad T = 227 + 273 = 500 \text{ K}$$



a)

$$\text{οηζε: } P \cdot V = n_{\text{ολ}} \cdot R \cdot T \Rightarrow 4 \cdot 5 = (3+x) \cdot 0,082 \cdot 500 \Rightarrow 3+x = 5 \Rightarrow \underline{x=2}$$

$$a = \frac{x}{3} = \frac{2}{3} \text{ ή } 67\%$$

$$\text{β)} [A] = 0,2 \text{ M} \quad [B] = 0,4 \text{ M} = [\Gamma] = 0,4 \text{ M}$$

$$\delta) \frac{P_A \cdot V}{P_{\text{ext}} \cdot V} = \frac{n_A \cdot R \cdot T}{n_{\text{ολ}} \cdot R \cdot T} \Rightarrow \frac{P_A}{4} = \frac{1}{5} \Rightarrow P_A = 0,8 \text{ atm} \quad \text{ή} \quad P_B = P_\Gamma = 1,6 \text{ atm}$$