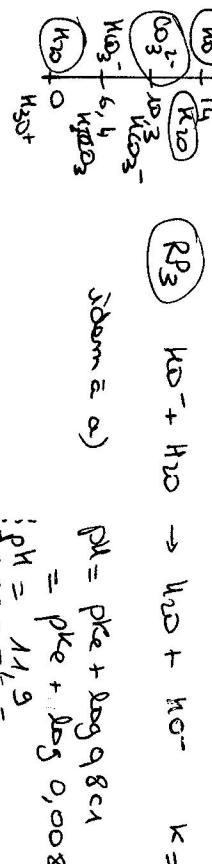
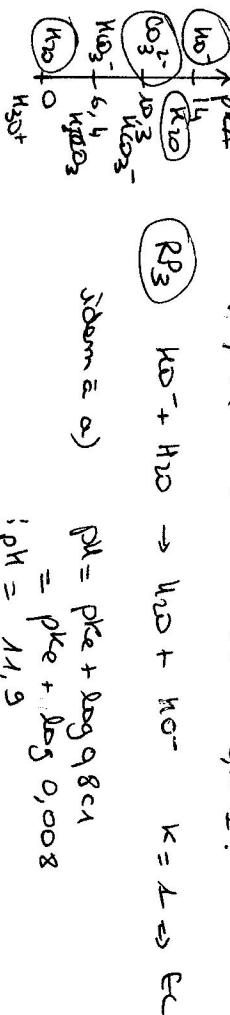
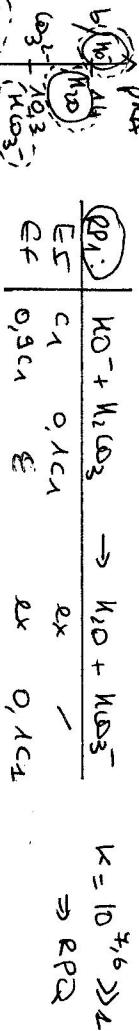


Ex 6:

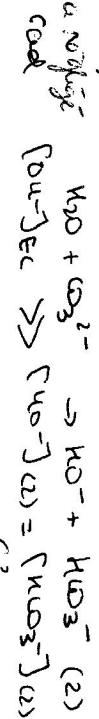
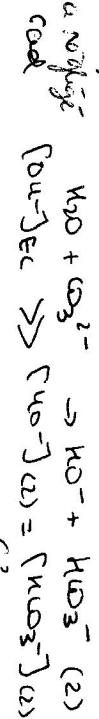
o) de reakcia do 1 con C) $\text{pH} = \text{pK}_a + \log [\text{C}_1] = \text{pK}_a + \log C_1 = 12,0$

• $\text{pH} > 7,5 \Rightarrow \text{APEC EEC} \Rightarrow \boxed{\text{pH} = 12,0}$



• Véase que

- $\text{pH} > 7,5 \Rightarrow \text{APEC EEC}$



$$\sigma \quad K = \frac{0,1\text{C}_1}{0,8\text{C}_1 \times E'} \Rightarrow E' = \frac{0,1}{0,8\text{C}_1 \times E'} =$$

$$= \frac{0,1}{2,5 \times 10^{-5} \text{nd}. \text{l}^{-1}}$$

$$\Rightarrow \text{[OH}^-]_{\text{eq}} = 0,008\text{nd}. \text{l}^{-1} \gg C' = 2,5 \cdot 10^{-5} \text{nd}. \text{l}^{-1}$$

- en el ~~equilibrio~~ la ^{2^{da} posición} de CO_3^{2-} $\text{pH} > \text{pK}_{A2} + 1$.

$$\Rightarrow \boxed{\text{pH} = 11,9}$$

c) en ~~reacción~~ \Rightarrow la fórmula de RP₂ es correcta.

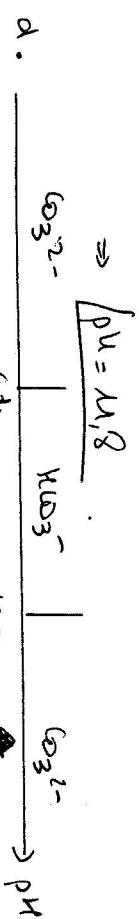


$$\text{clase } \text{pH} = \text{pK}_a + \log 0,008 = 11,8 = \underline{\underline{\text{pH}}}$$

verif. das (1) • $\text{pH} > 7,5 \Rightarrow \text{APEC EEC}$

• (2) ~~con~~ $\Sigma'' = 6,65 \cdot 10^{-5} \text{nd}. \text{l}^{-1} < 9,006 \text{nd}. \text{l}^{-1}$

• ^{2^{da} posición} de CO_3^{2-} negligible con $\text{pH} > \text{pK}_{A1} + 1$



pH de la base carbónica

$\Rightarrow \text{CO}_2$ se ~~transfiera~~ ~~separar~~ ~~separe~~ \Rightarrow form. de CO_3^{2-}
 \Rightarrow pH sonda carbonato $> \text{pK}_{A2} + 1$

$$\begin{array}{l} [\text{HCO}_3^-]_{\text{eq}} = C_1 \left(1 - \frac{\alpha}{K} \right) \\ [\text{CO}_3^{2-}]_{\text{eq}} = \frac{C_1 \alpha}{100} \end{array}$$

weil das (1) • $\text{pH} > 7,5 \Rightarrow \text{APEC EEC}$

• (2) ~~con~~ $\Sigma'' = 6,65 \cdot 10^{-5} \text{nd}. \text{l}^{-1} < 9,006 \text{nd}. \text{l}^{-1}$

• ^{2^{da} posición} de CO_3^{2-} negligible con $\text{pH} > \text{pK}_{A1} + 1$

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