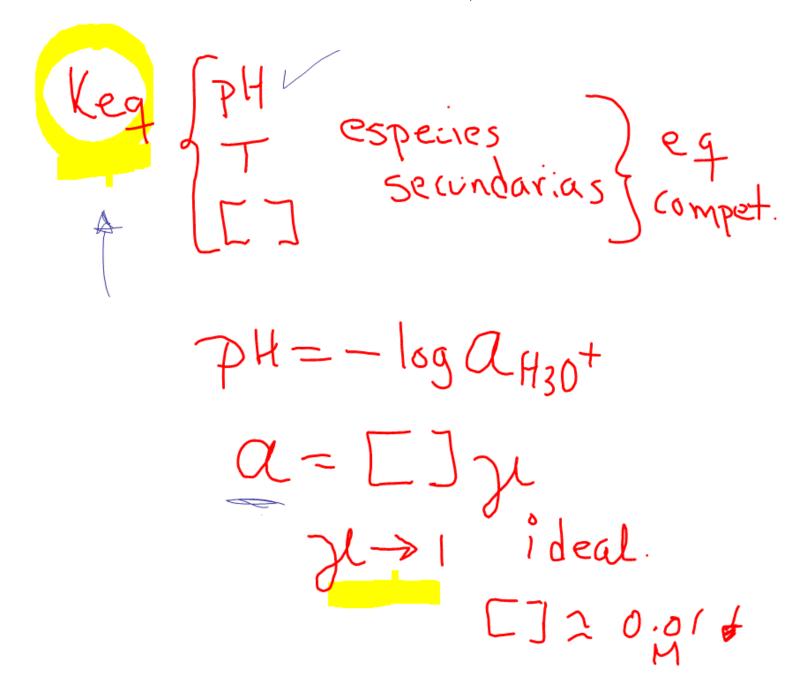
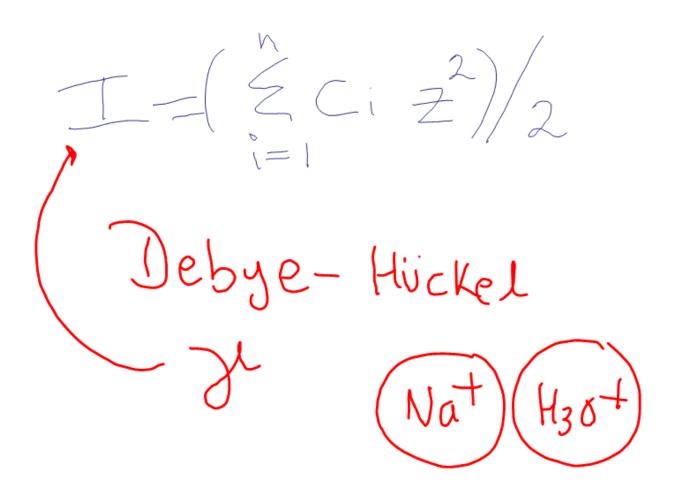
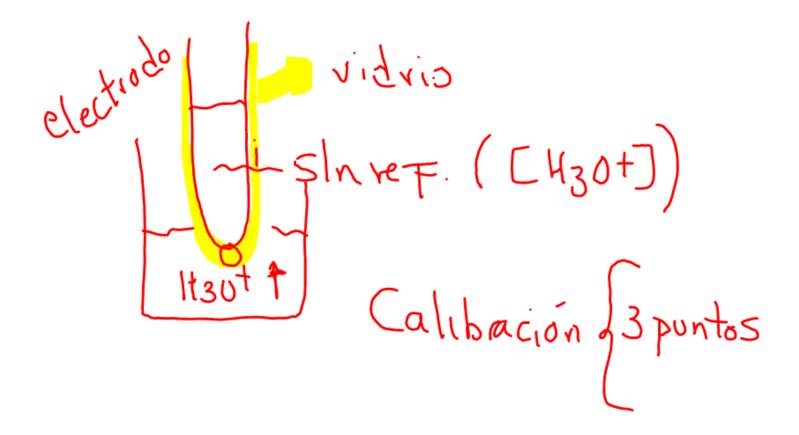
Clase 1 25 septiembre de 2020

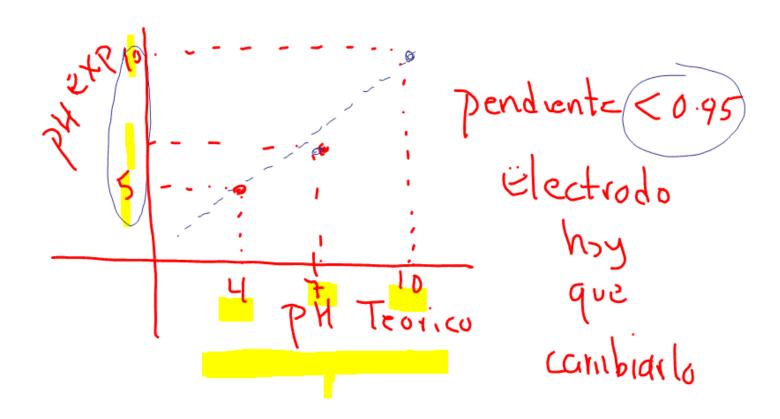
Título de la nota 25/09/2020

Reacciones Completas
Uncompletas
Uncomplet









$$HA + H_2O = H_3O+ + A^ VEQ = H_3O+ + A^-$$

$$KbKa = Kw$$

$$Kw = [H30+][OH] = 10$$

$$a 25°C$$

$$Ka = Kw$$

$$Kb = Kw$$

$$Vb$$

pka = - log Ka PKW = - log KW PKb=-log Kb PKa+pKb=pKw PKa+pKb=14

$$\left\{ \begin{array}{l} \Box H_3O^{+}] \ \Box NJ = KW \\ -\log \Box H_3O^{+}] -\log \Box NJ = -\log KW \\ PM + POH = PKW \\ PM + POH = 14 \\ PM = 14 - POH \\ PM = 14 + \log \Box NJ \end{array} \right.$$

Ka= [H30+] [A] lagrama de Distribución [AH] × 100

$$\frac{[HA]}{[A]} = \frac{[A][H30t]}{[Xa]}$$

$$\frac{[A]}{[A]} = \frac{[A]}{[A]} \times 100$$

$$\frac{[A]}{[A]} \times 100$$

$$\frac{\Box A^{-} \Box}{\Box A^{-} \Box} = \frac{\Box A^{-} \Box}{\Box A^{-} \Box} \begin{bmatrix} H_{3}0^{\dagger} \end{bmatrix} \beta P$$

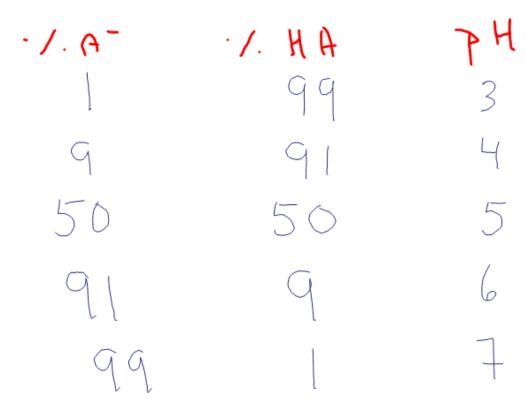
$$\frac{\Box A^{-} \Box}{\Box A^{-} \Box} \begin{bmatrix} A^{-} \Box & X \end{bmatrix} \begin{bmatrix} A^{-} \Box & X$$

$$\frac{[A]}{[A]} \times [OO] \times [A] = \frac{[A]}{[A]} \times [OO] \times [A] \times [OO] \times [A] \times [OO] \times [A] \times [OO] \times [A] \times [$$

$$K_{Q} = \frac{[H_{3}0t][A]}{[HA]}$$

$$\frac{[HA]}{[A]} = \frac{[H_{3}0t]}{[Ka]} = \beta p [H_{3}0t]$$

$$\frac{L}{Ka} = \beta p$$



$$PH = 5$$
 $V.A = \frac{1}{1+8P}[H30t]$
 $V.A = \frac{1}{1+10}[H30t]$
 $V.A = \frac{1}{1-5}[H30t] = \frac{1}{2}[H30t]$
 $V.A = \frac{1}{10}[H30t] = \frac{1}{50}[H30t]$

$$7.14A = 7.4 - 3p [H_30t]$$

$$PH = 5$$

$$= 50.7.10^{5} [10^{5}]$$

$$= 50.7.10^{0}$$

$$= 50.7.10^{0}$$

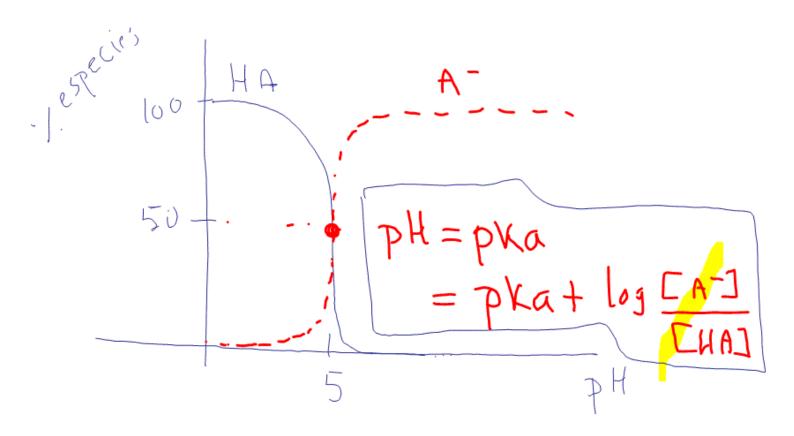
$$7. A^{-} = \frac{1}{1 + 10} \times 100$$

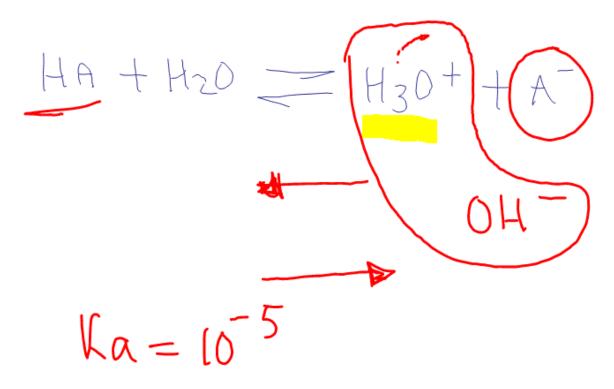
$$= \frac{1}{1 + 10} \times 100 = \frac{1}{11} \times 100 = 9.1$$

$$A = 9.1.10 = 9.1.10$$

$$= 9.1.10$$

$$= 9.1.10$$





$$\begin{aligned} \text{Leq} &= \frac{\text{LH}_3\text{O}+\text{J}[\text{A}^{-}]}{\text{LH}_4\text{J}} = 10^{-5} \\ \text{Leq} &= \frac{\text{LH}_3\text{O}+\text{J}[\text{C}\text{O}+\text{J}[\text{A}^{-}]}{\text{LH}_4\text{J}} \end{aligned}$$

$$Keq = \begin{bmatrix} CA^{-1} & CH_{3}6^{\dagger} \end{bmatrix}$$

$$CHAJ \begin{bmatrix} COH^{-1} & CH_{3}6^{\dagger} \end{bmatrix}$$

$$Keq = \begin{bmatrix} Va & = 10 \\ VW & = 10 \end{bmatrix}$$

$$Value = \begin{bmatrix} Va & = 10 \\ VW & = 10 \end{bmatrix}$$

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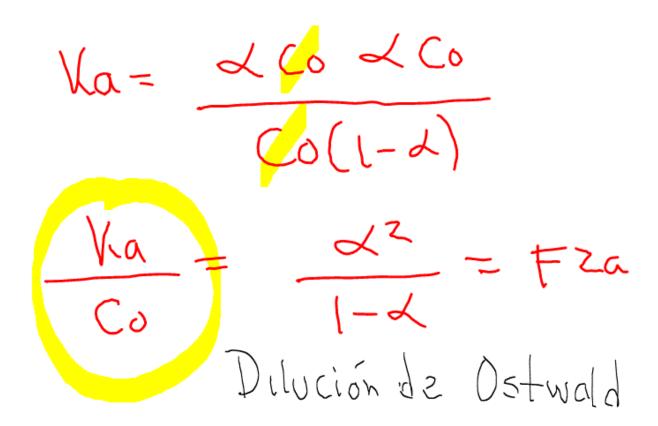
$$Value = \begin{bmatrix} Va & = 10 \\ VW & = 10 \end{bmatrix}$$

$$Value = \begin{bmatrix} Va & = 10 \\ VW & = 10 \end{bmatrix}$$

$$Value = \begin{bmatrix} Va & = 10 \\ VW & = 10 \end{bmatrix}$$

$$Ka = [H30t][A^{-}]$$

$$= [H4]$$



$$\frac{Ka}{Co} = \frac{10^{-5}}{10^{-2}} = \frac{-3}{10}$$

$$= \frac{10^{-5}}{10^{-6}} = \frac{10}{10^{-6}}$$
Frante

HA + H20 = H30+ + A-

$$\frac{kb}{co} \leq lo^2$$
 base debit

 $\frac{b}{co} \geq lo^2$ base $\frac{b}{co} \leq lo^2$
 $\frac{b}{co} \leq lo^2$

$$B + H_{20} = BH^{+} + OH^{-}$$

 $[H_{30}^{+}] = K_{0} \frac{(C_{0} - [H_{30}^{+}] + [OH^{-}])}{(C_{0}^{+} + [H_{30}^{+}] - [E_{0}^{-}])}$

[HA]+[A] = Ca+Cb electroneutralidad [Nat] + [H30+] - [OH] + [A] Cb = [OH] + [A] - [H30+] [A] = Cb + [H30+] - [OH-]

$$X_{A} = \frac{CH_{3}O+J[A-J]}{CHAJ}$$

$$CH_{3}O+J = \frac{X_{A}CH_{A}}{CA^{2}J}$$

$$CH_{3}O+J = X_{O} \qquad CHAJ$$

$$CH_{3}O+J = X_{O} \qquad CHAJ$$

$$[HA] = Ca + Cb - [A]$$

$$[HA] = Ca + Cb - [Cb + CH30t] - [OH]$$

$$[HA] = Ca - [H30t] + [OH]$$

$$\begin{aligned}
\left[\text{EH}_{3}\text{O}^{+}\text{J}^{2} &= \text{KaCa} \right] - \log \\
2\text{pH} &= \text{pKa} - \log \text{Ca} \\
\text{PH} &= \frac{1}{2}\text{pKa} - \frac{1}{2}\log \text{Ca} \\
\text{PH} &= \frac{1}{2}\text{ndodebil}
\end{aligned}$$

audo Fte
$$\left\{ L_{H30+} \right\} = Ca \left\} - log$$

$$PH = -log Ca$$

amortiguador
$$\begin{bmatrix}
EH30+J = Ka & Ca & Ca \\
Cb & Cb
\end{bmatrix} - log$$

$$PH = PKa - log Ca$$

$$PH = PKA + log Cb$$

$$Ca$$