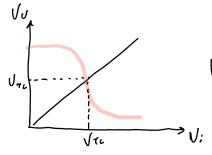
$$V_{00} = 3.5 \text{ V} \qquad \beta_{\text{N}} = 3 \frac{\text{m} A}{V^2}$$

$$V_{\text{Th}} = 0.35 \text{ V} \qquad R_1 = 2.5 \text{ kg} \qquad ? = V_{\text{TL}}$$

$$R_2 = 22 \text{ kg}$$

$$R_3 = 80 \text{ G}$$



- cie solo 1 Mas ON, OFF, LW cismo selo 3 zone nel gentico -> mai due estremi mon ci puor avere de V:= Vu

· M:off

$$I_{0=0} \rightarrow I_{R_1} = I_{R_2} = I_{R_3} = \frac{V_{00}}{R_1 + R_2 + R_3} = 134.4 \text{ pcA}$$

$$V_{K} = R_3 I_3 = 6.72 \text{ mV}$$

$$V_{U} = (R_1 + R_3) I_3 = 2.9635 \text{ V}$$

quando é de : l mos à off?

s: pus aver Vec in pugle 3 one? - NO (V: 7 Vu)

$$\begin{array}{c}
V_{GS} < V_{9S} + V_{7} \\
V_{GS} = V: -V_{8}
\end{array}$$

$$\begin{array}{c}
V_{GS} > V_{0S} + V_{7} \\
V_{V} > V: -V_{7}
\end{array}$$

$$\begin{array}{c}
V_{U} < V_{1} - V_{7}
\end{array}$$

$$I_{e_{A}} = I_{e_{3}} \rightarrow \frac{V_{00} - V_{\tau_{L}}}{R_{A}} = \frac{V_{x}}{R_{3}} \rightarrow V_{x} = \frac{\ell_{3}(V_{00} - V_{\tau_{L}})}{R_{A}}$$

$$I_{0} = \frac{\beta_{A_{0}}}{2} \left(V_{6}s - V_{8}\right)^{2} = \frac{\beta_{A_{0}}}{2} \left(V_{\tau_{L}} - V_{x} - V_{8}\right)^{2}$$

$$I_{e_{L}} = \frac{V_{U} - V_{x}}{R_{2}} = \frac{V_{\tau_{C}} - V_{x}}{R_{2}}$$

$$I_{a_{A}} = I_{0} + I_{e_{2}}$$