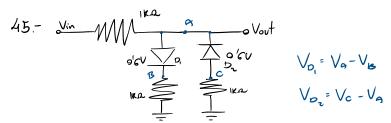
## **Problemas**

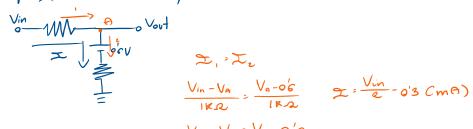
domingo, 6 de febrero de 2022 17:38



Supongamos ambos diodos en OFF:

Esto ocuverica cuando:

Supongamos D. ON y Dr OFF



$$\Sigma_i \cdot \Sigma_i$$

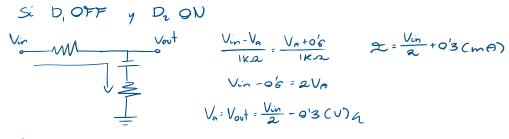
$$\frac{V_{in}-V_{A}}{IKA} = \frac{V_{a}-o'_{6}}{IKA} \qquad 2 = \frac{V_{in}}{e}$$

$$2V_{0} = V_{10} + 0'6V$$
  
 $V_{0} = \frac{V_{10}}{2} + 0'3V$ 

Isto ocurrica si (Vc = 2 R = Vin - 0'3)

$$2 > 0 \implies \frac{V_{in}}{2} - 0'3 > 0 \implies V_{in} > 0'6$$

$$V_{D_2} = V_e^0 - V_A = -\frac{V_{in}}{2} - 0'3 < 0'6$$



Isto ocuvere si

$$V_{o_1} = V_{o_1} - V_{o_2}^{o_3} = \frac{V_{in}}{2} - o'3 < o'_6 \implies V_{in} < 1'8V$$

$$2 < 0 \implies \frac{V_{in}}{2} + o'3 < 0 \implies V_{in} < -o'_6 U$$

Suponemos ambos en ON:

Vin - 
$$V_{a} = \frac{V_{a} - 0/c}{1 \text{ Ka}}$$

Vin -  $V_{a} = \frac{V_{a} - 0/c}{1 \text{ Ka}}$ 

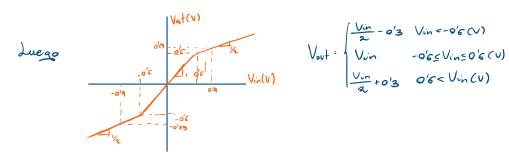
Vin -  $V_{a} = 2V_{a} \Longrightarrow V_{a} = \frac{V_{in}}{3}$ 

(V)

Voul =  $\frac{V_{in}}{3}$ 

Esto ocureira si

• 
$$\mathfrak{Z}_{2} > 0 \Longrightarrow \frac{V_{in}}{3} - 0'6 > 0 \Longrightarrow V_{in} > 1'8$$
•  $\mathfrak{Z}_{3} < 0 \Longrightarrow \frac{V_{in}}{3} + 0'6 < 0 \Longrightarrow V_{in} < -1'8$ 



$$V_{out} = \begin{cases} \frac{V_{in}}{2} - o'3 & V_{in} < -o'6 (V) \\ V_{in} & -o'6 \le V_{in} \le o'6 (V) \\ \frac{V_{in}}{2} + o'3 & o'6 < V_{in} (V) \end{cases}$$

V41 = Vec = 0'6V Vz=100 Vz=80

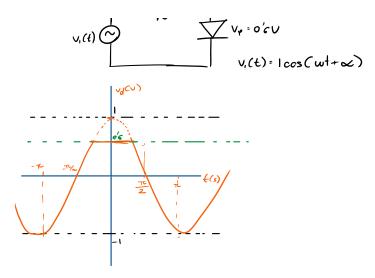
Supongamos D, y Dr en OFF

Supongo D. ON (Invertido) y Dr OFF

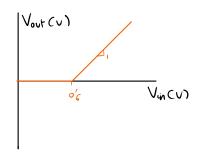
I : 10 = 200 I = I = 14'28mg

Comprobamos que: VD=-VB=-(20-7,600-7,400):-4'29V>-8:-V==) Convecto Ip <0 => Iz-2, =-2'39mA < 0 => Correcto

IR, = I, = 16'67 may Ir= Ir3 = In= 14'28 may



b) Característica de transferencia:



Vout : Vo

