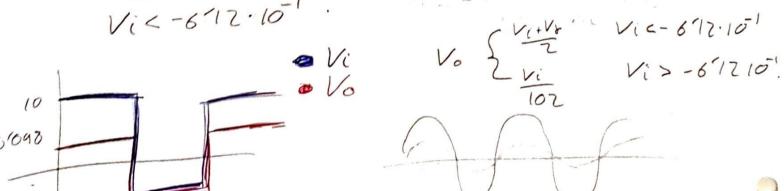
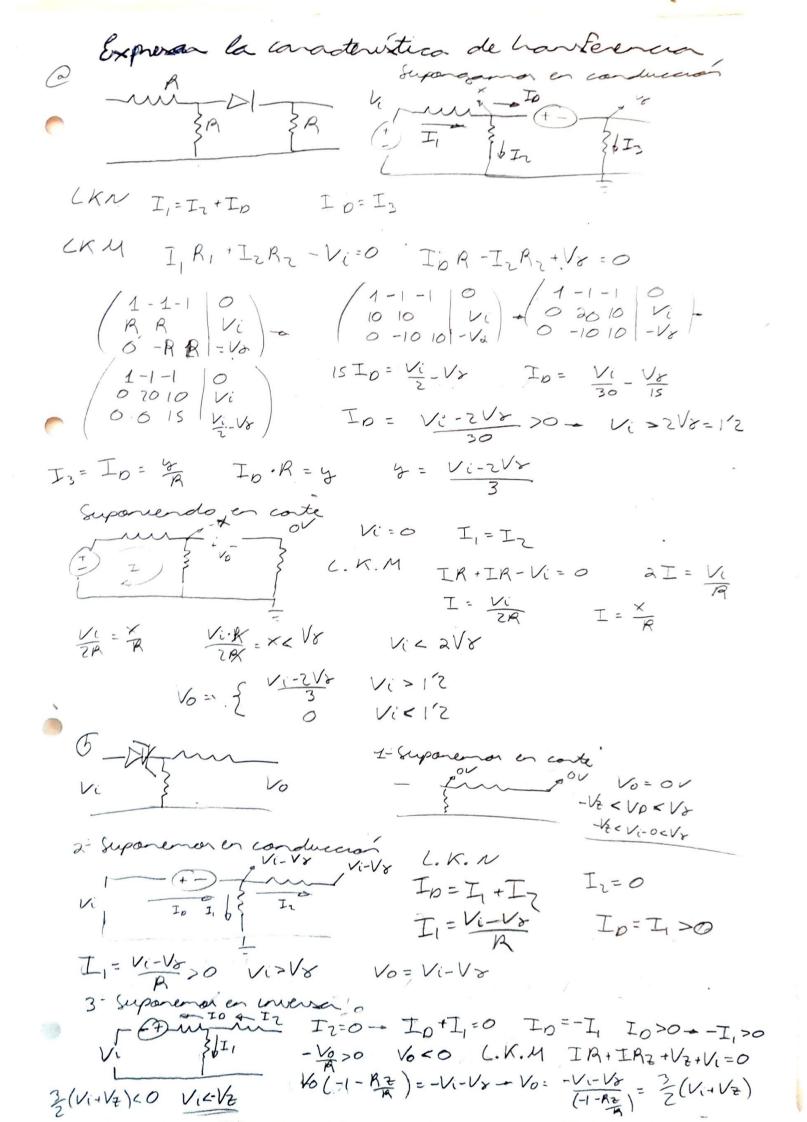


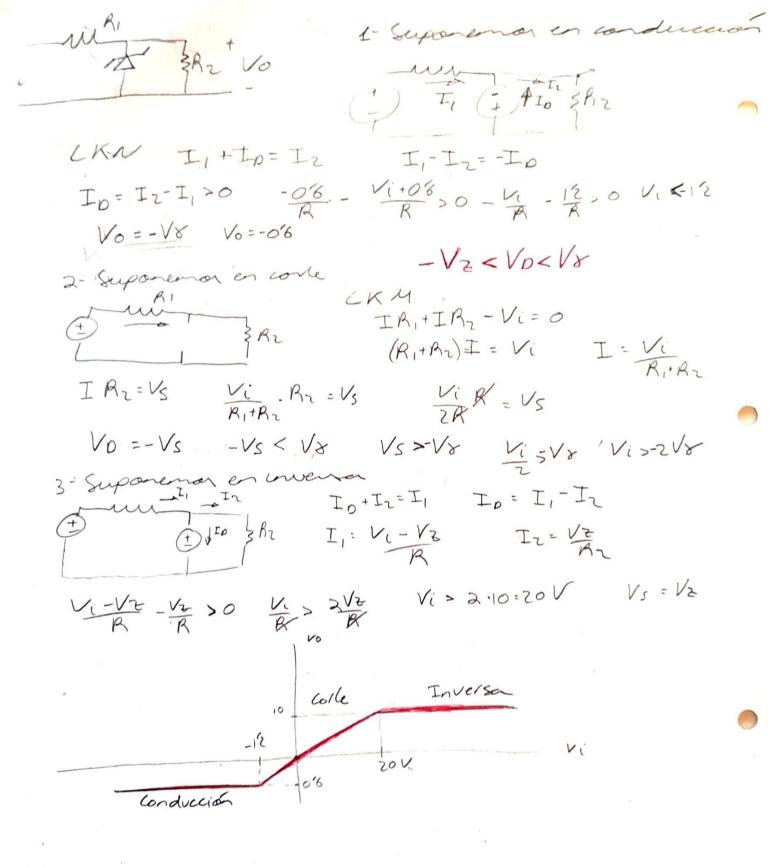
$$-\frac{1}{RC} + \frac{1}{RB} > 0 \quad \frac{1}{2} \left[ \frac{1}{V_{1} + V_{2}} \right] + \frac{1}{2} \left[ \frac{V_{1} + V_{2}}{RB} \right] > 0$$

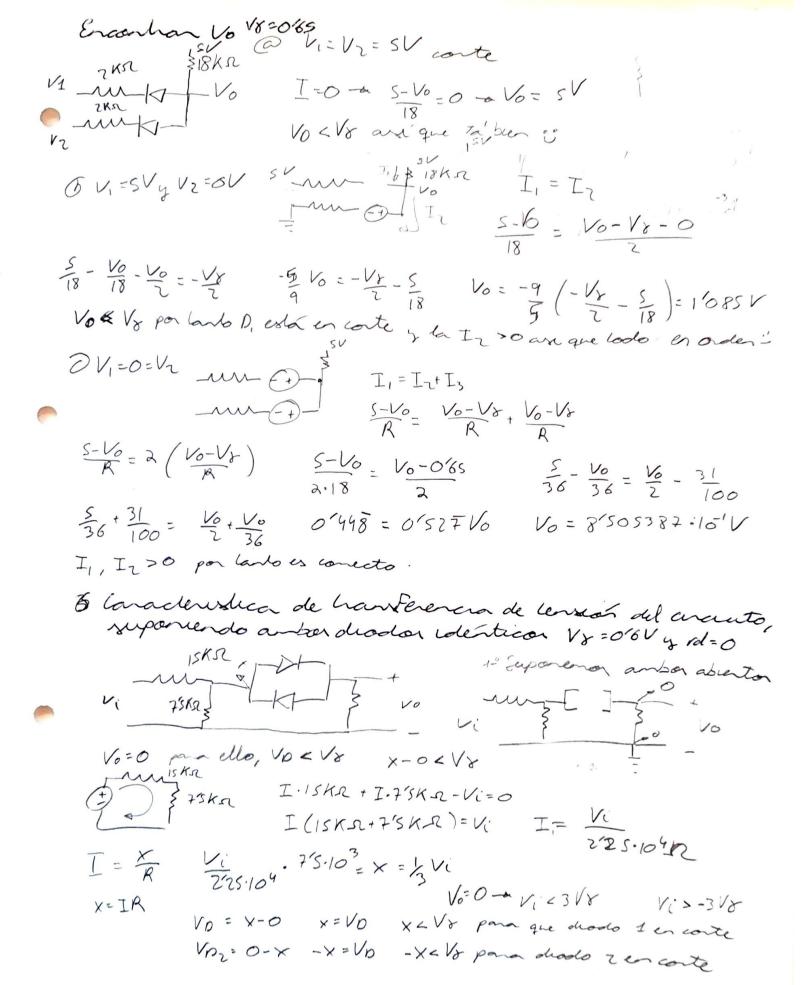
$$-\frac{V_{1} - V_{2}}{RC} + \frac{1}{2} \frac{V_{1}}{RC} > 0 \quad \frac{1}{2} \frac{V_{1} + V_{2}}{RC} \right] + \frac{1}{2} \left[ \frac{V_{1} - V_{2} - V_{1} - V_{2}}{RB} \right] > 0$$

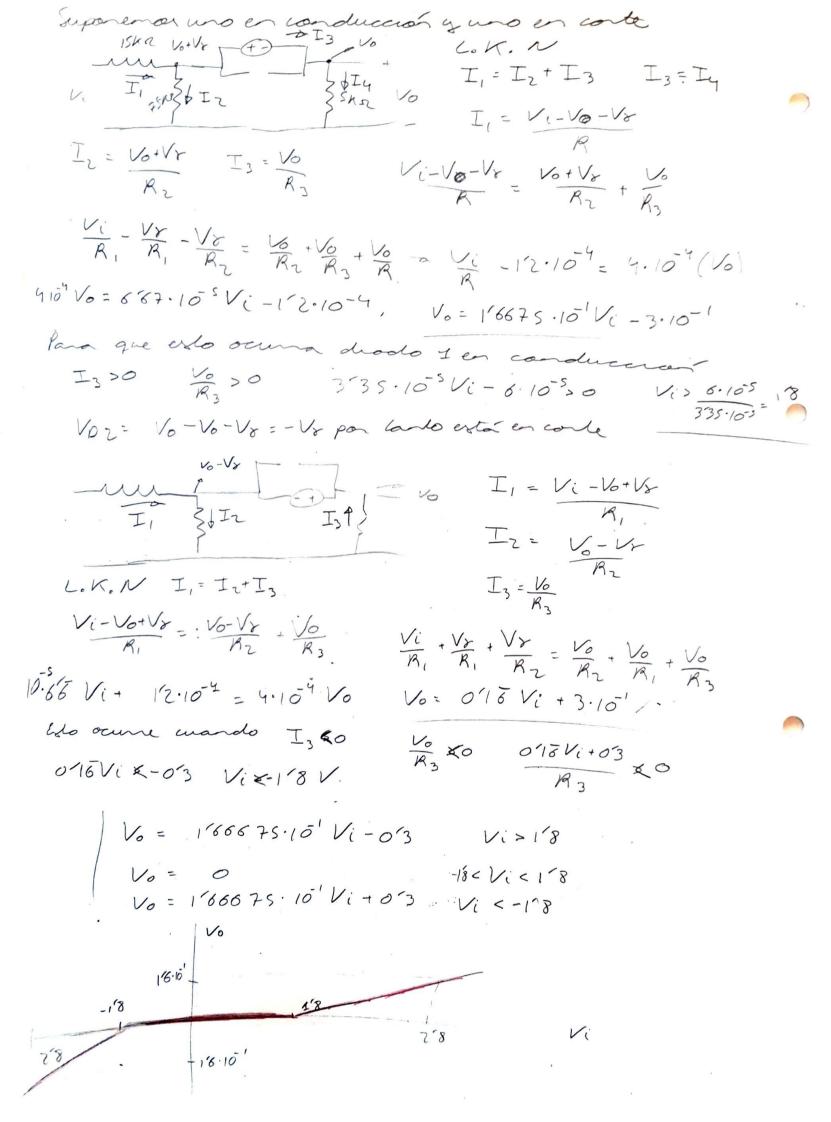
$$-\frac{V_{1} - V_{2}}{RC} + \frac{1}{2} \frac{V_{1}}{RC} > 0 \quad \frac{1}{RC} > \frac{1}{2} \frac{V_{1} + V_{2}}{RC} = \frac{1}{2} \frac{V_{1} + V_{2}}{RC} =$$

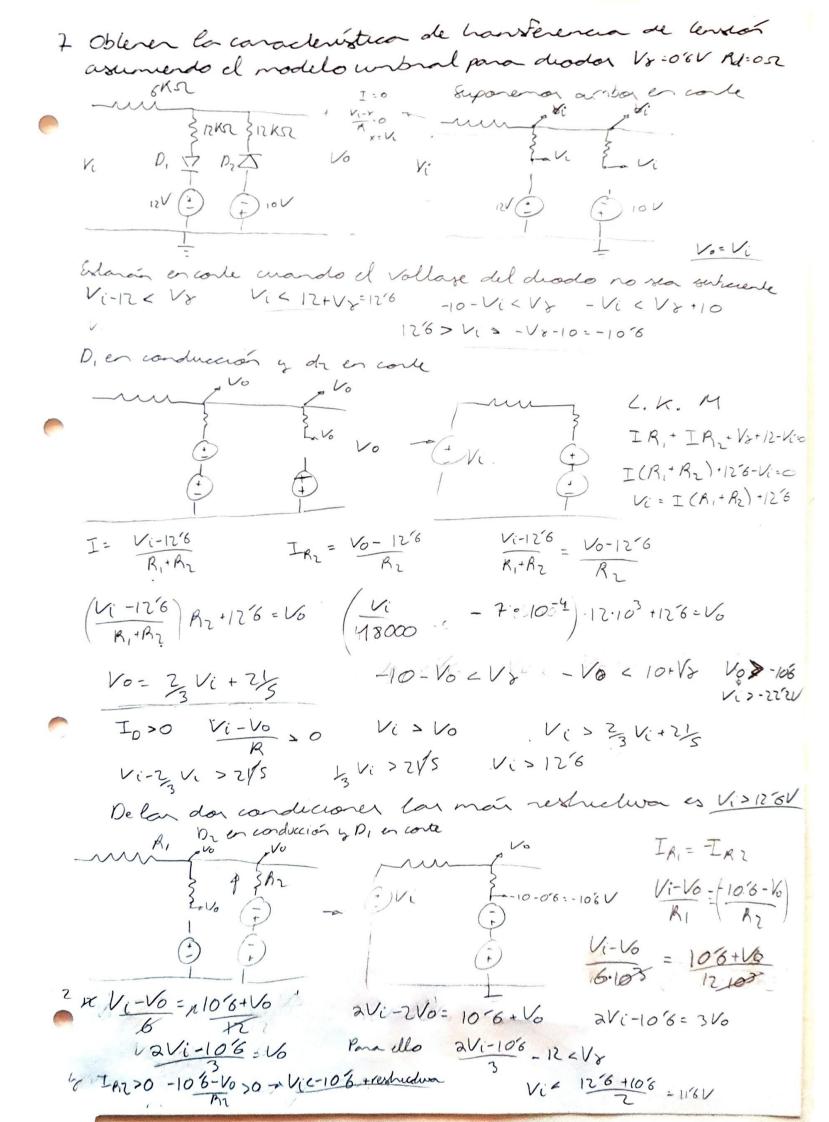


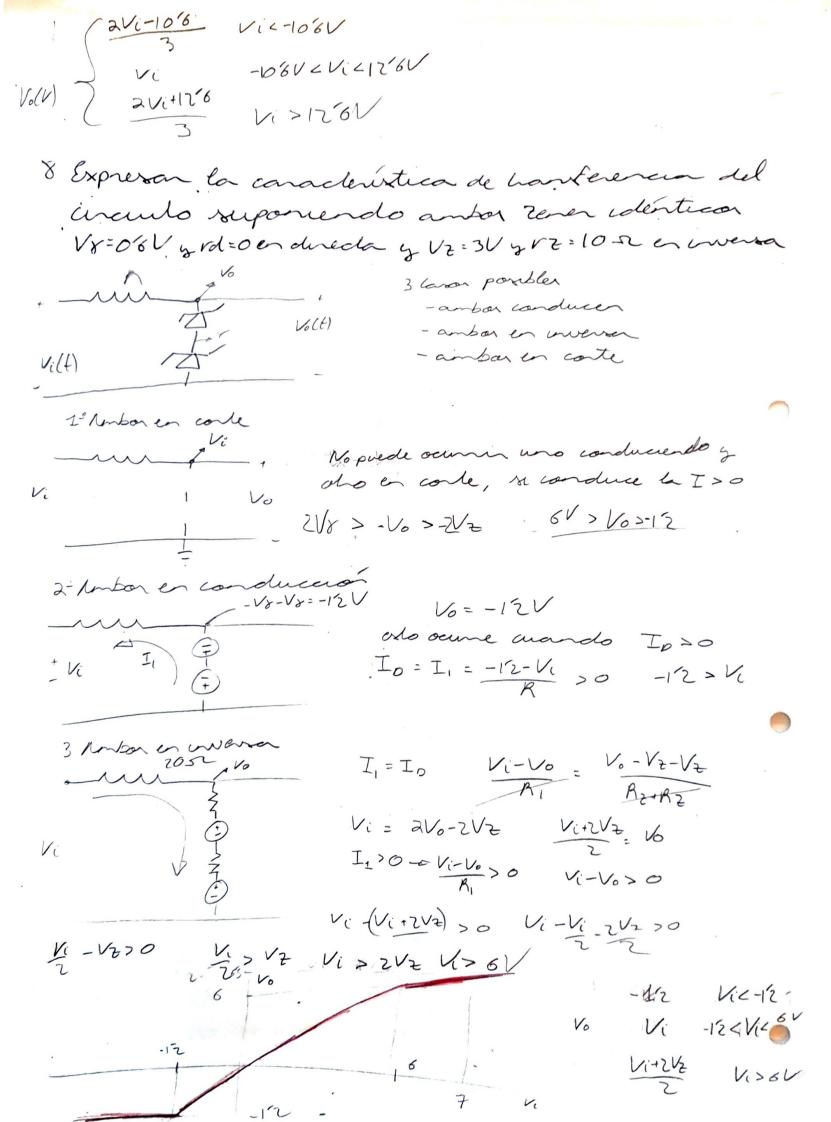








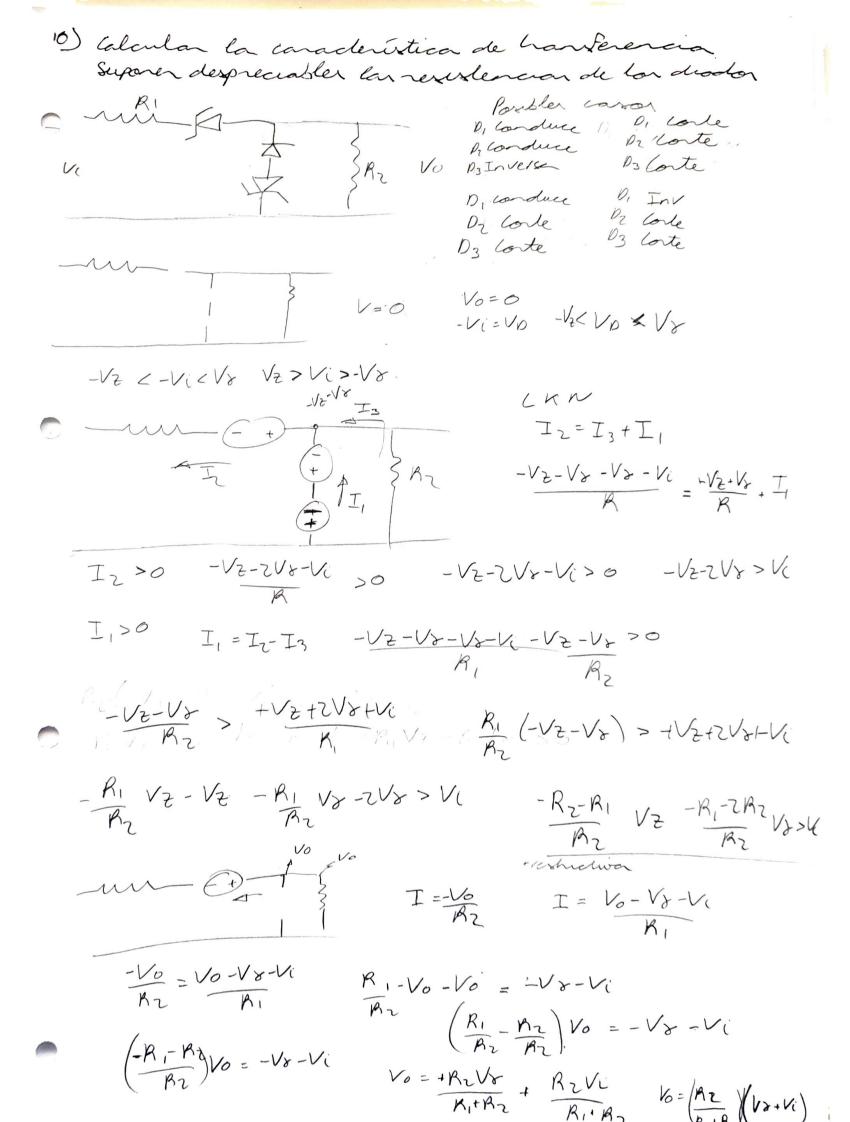




9) Dado el circulo de la Figura, sabiendo que Vz=SV, V8=0'6V y considerando que las revisteras, despreciables, hallon la conacteristica de hanteria y DI conduce 2) DI conduce Dr mera Dr conte 3) Dr worduce 4)D, conte D, conte Dr conte I, = I3+I2 I3+I2= I4+Is  $I_1 = \frac{V_1 - 56}{R}$   $I_3 = I_0$   $I_2 = \frac{56 - 5}{R}$   $I_4 = \frac{5}{R}$   $I_5 = I_{02}$ I3>0 I,-I2>0 Vi-56, 56-5>0 Vi-56 > 6.10-3 Vi-56 > 6.10-1 Vi>5V Is>0 - I3+I2-I4>0 I1-12+12-I4>0 Vi-56-5 >0 Vi-56>5 Vi > 106V comen esta que es la mái restriction L.K.N I = Ip + Iz  $\frac{Vi-x}{R} = I_D + \frac{x-(x-v_\delta)}{R} \qquad \frac{Vi-x}{R} = I_D + \frac{x-x+v_b}{R}$ Vi-X = X-V8 Vi = 2X-V8 Vi+V8 = X IOSO I,-IZ>O V:-X-V8>O V:-X>V8 Vi-Vi-Vs - Vr Vi > 3Vr Vi> 3Vr Vi> 18 X-V8 CVZ Vi+V8\_V8 C VZ Vi-V5 C VZ V. < 2/2. Vr =18 < Vic 10 6

Disarduse is Die cole The state of In= IIIZ In>0- - V2-Vi + -Vx >0 -Vi R+R2 - Vx - Vx ( R+R2 ) -Vi > 9.10-3 -Vi> 200.9.103 Vi<-200.9.103; -18V Vi-X = X-Vx Vi+Vx=X X-Vx < V8 Vi+Vz Z Vx · Vi cz (Vo. Vz) Vic-18V cocser la man restriction I = Vi RiRiR3 Vo I = Vo
R Vo = Vi
R, +Rz+R3 VO < V8 Vi-X = I R-Vi Vo= 1/2 VC x-Vo < V8 Vi-Vo-Vo < V8 Vi-ZVO < V2 X= VI-IR Vi-2 (3 Vi) < V8 3 Vi < V8 Vi < 18 -V2-K-VOKV8 -VZK-1/2 VikV8 Laterstica -3 VZ <- V(23 V8 3VZ > V( >-3 V8 15 > V( >-18 187 Vi>-18 Vi > 108 Vo { Vi-Vo 7 /3 Vi 106 > Vi > 18 1/8 > /13-1/8 Vi < -18

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Para que ello œura T > 0  $\frac{-V_0}{R_1} > 0$   $\frac{-V_0 > 0}{-V_0 > 0}$   $\frac{-V_0 < 0}{-V_0 < 0}$   $\frac{-V_0 < 0}{R_1 + R_2}$   $\frac{R_2}{R_1 + R_2}$   $\frac{(-V_0 < -V_0) \angle -V_0 + V_0}{R_1 + R_2}$   $\frac{R_1}{R_1}$   $\frac{R_2}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_2}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_2}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_2}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_2}{R_2}$   $\frac{R_1}{R_2}$   $\frac{R_2}{R_2}$   $\frac{R_2}{R_2}$ 

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 $I_1 = I_2 + I_3 \Rightarrow I_1 = I_2 - I_4$   $I_3 = -I_4 \qquad V_i = V_0 = \frac{V_0 - 126}{6K - 2} - \frac{106 - V_0}{12K - 2}$   $2V_0 - V_i = 1 \qquad V_0 = 1 + V_i$ 

 $I_{2} = \frac{V_{0} - 126}{12 \cdot 10^{3}} = \frac{(1+V_{i})}{12 \cdot 10^{3}} > 0 - eV_{i} > 24/2$   $I_{3} = \frac{-106 - V_{0}}{12 \cdot 10^{3}} = \frac{-106 - (1+V_{0})}{12 \cdot 10^{3}} > 0 - eV_{i} \times -22/2$ 

Anexo, las dos en conducción