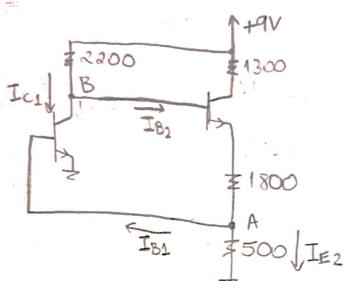
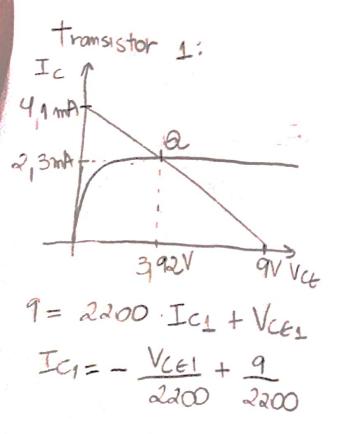
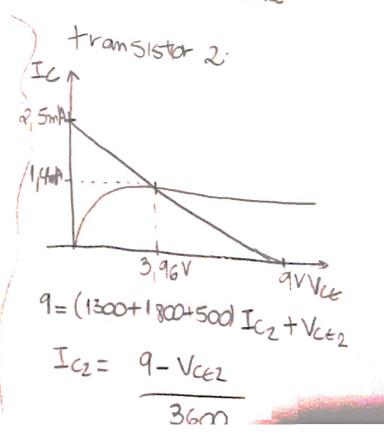
## RODRIGO ALVES DE ALMEIDA ELE 53 - PROVA 1 - COMP22

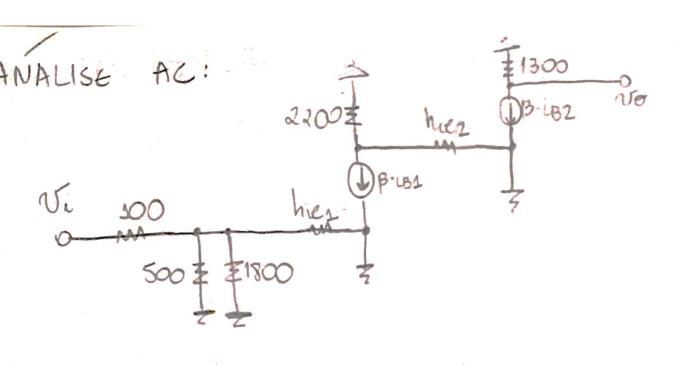
01

ANALISE DC:



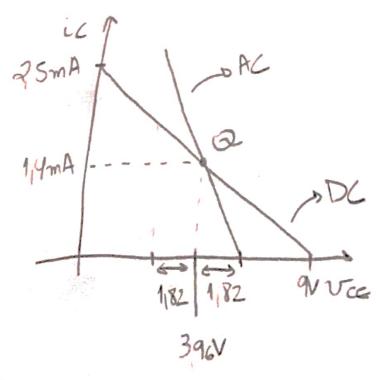






NCEZ = -1300. icz | LCZ | < LcQz = 1,4 mA no | NCEZ | < 1,82 V Ly maxima excursão

adrumendo a influencia AC na reta de correjor



so gerador de corrente:

$$\begin{array}{l} (B2 = iB - iB) \\ 12 - 2200 (2iB1 - iB) \\ 12 - 0,7 = 2200 iB1 + 10000.41 iB \\ iB = 12,9 \mu A \\ I = B iB = 0,52 mA \end{array}$$

$$I_{ca} \approx I_{Ea} = 0,26 \text{ mA}$$
 $V_{ca} = 12 - 21 \text{ k. Ic} = 6,7 \text{ V}$ 

hier=hiez= 
$$25\text{mV}(BH)$$
=

 $IEQ$ 

=  $4\text{KAD}$ 
 $Vi = 2 \cdot \text{hien} iB = 8200 iB$ 
 $Ve = -21\text{K} \cdot 40 iB$ 
 $\frac{Ve}{Vi} = -\frac{21\text{K}}{8200} = -1024$ 
 $Ve = -1024 \text{mV} \cdot \text{ws}(504)$ 

Volt = 6,7 V- 1,02 V. cos (103t)

## 03) D3:0 110 11/

Nender vix vie a resistence de entrada de amplificador muito alta, poolemos consideras: VA ~O i-~O

$$I = I_0 + I_1 + I_2 + I_3$$

$$-\frac{v_0}{R} = \frac{5}{16R} + \frac{5}{8R} + \frac{5}{2R}$$

$$v_0 = -3,4375 \text{ V}$$