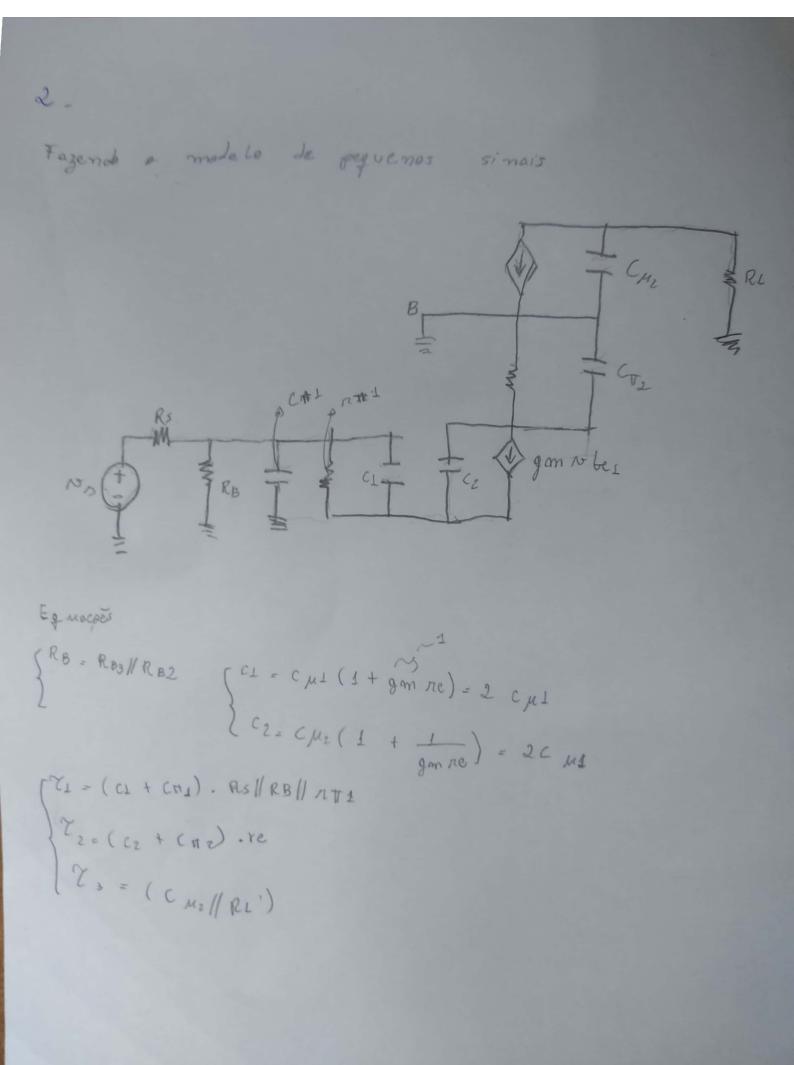
Diomates Transistores PNP Transistores NON 1 - a) p = 100 B = 200. Dro= 4M VA=50 VA = 100 V Dades : a) Resistência de saído In = 15-1,4 Io = ImA rop = VAP DSO p+ 1 = 201 vom = Bm . Vm Rin = 2011. 2. re rom = 200 , 200 = 201.2.50 = 20100 ~> Rim = 20100 | 400 0.5 m 10m = 20M (rop = . SM) rop = 100.50 2 0.5m 100 = 5 M

Digitalizado com CamScanner

Ar=NJ e o cantinuando NJ = N2 10=VT = 25 m/v = 50-52 RN//Rp = Ro 1. W = No M NO - RO - 4M = 80K [V/V] RN//Rp=Ro & 20M.5M (4Ms)  $A_{0} = \frac{N\lambda}{NS} = \frac{2 \operatorname{re}(B+1)}{2 \operatorname{re}(B+1) + (RS)} = \frac{20.100}{20100} = \frac{20.100}{20100}$  $A_{V} = V_{0}$   $A_{0} \cdot N_{0} = 80K \cdot 0.5 = A_{V} = V_{0}$   $A_{V} = V_{0} \cdot A_{0}$   $A_{V} = V_{0} \cdot A_{0}$   $A_{V} = V_{0} \cdot A_{0}$ 



Iniciando WL = 1 44,562 . 220 M (P/WL de se al Har para CE WL: I Ree . Ce W\_= 102 nad/s PP RCE RCE =  $\left(\frac{RB || RS}{B} + re\right)$ . RE = 44,562sc P/A ( NO = Re. gm. Nobe 1 A => NO Nobel = re. gm

P/A

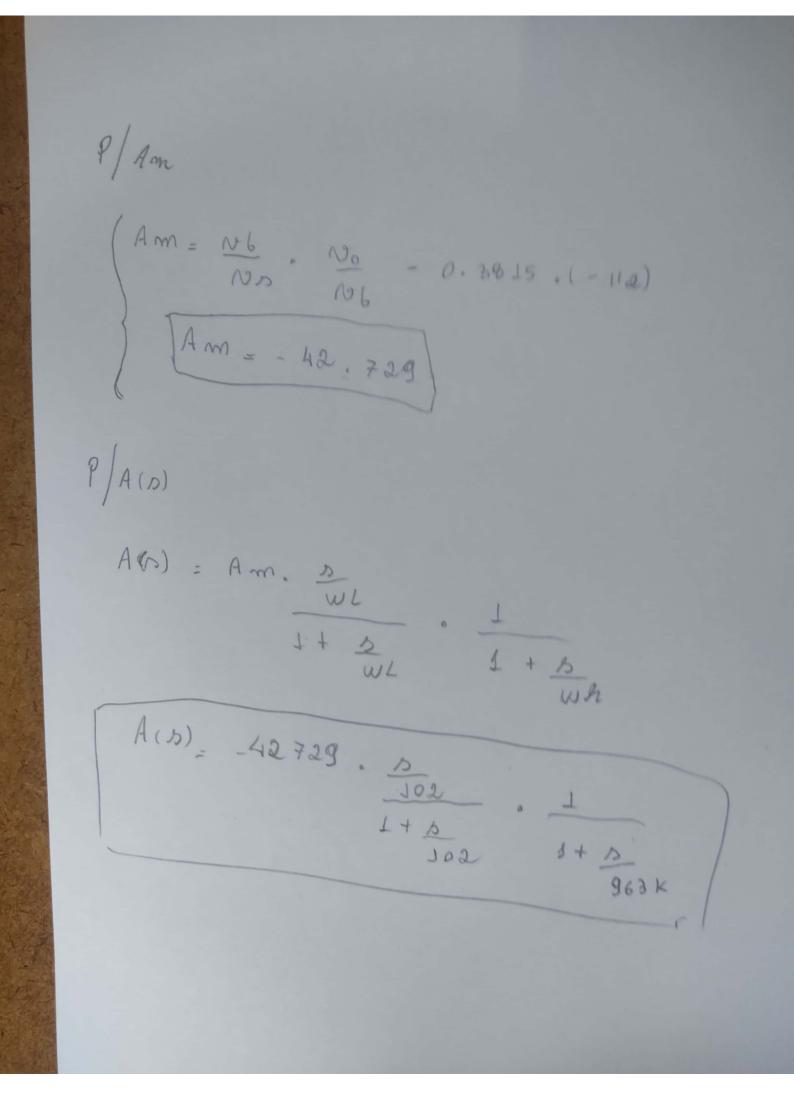
RCE = 
$$\left(\frac{Rel/Rc}{P} + re\right)$$
. RZ = 44.562.2

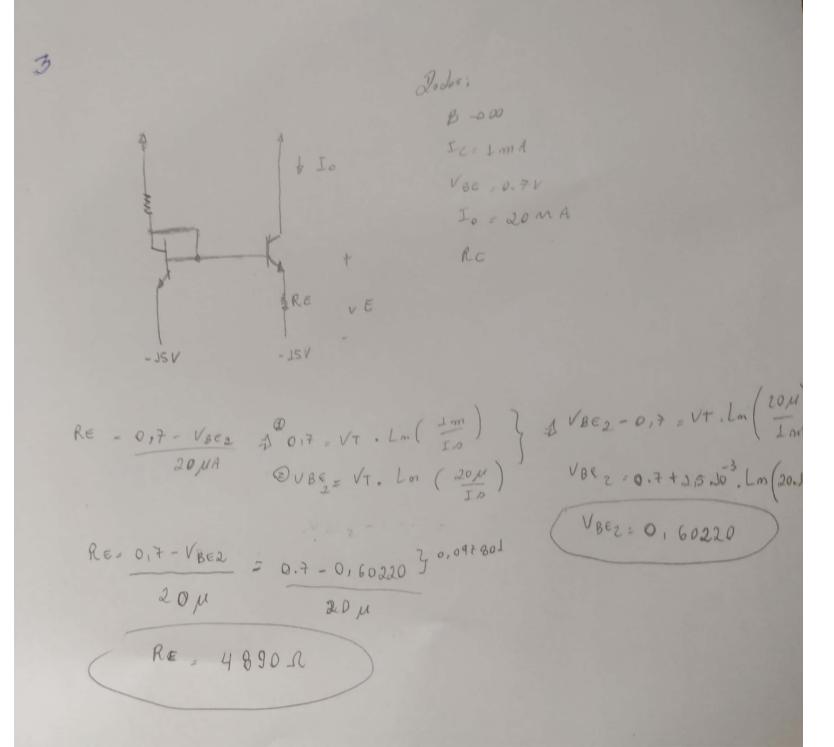
P/A

 $\begin{pmatrix} NO = RC & gm & NGe 1 \\ A \ge NO & = re & gm \\ NGe 1 & A = -1 \end{pmatrix}$ 

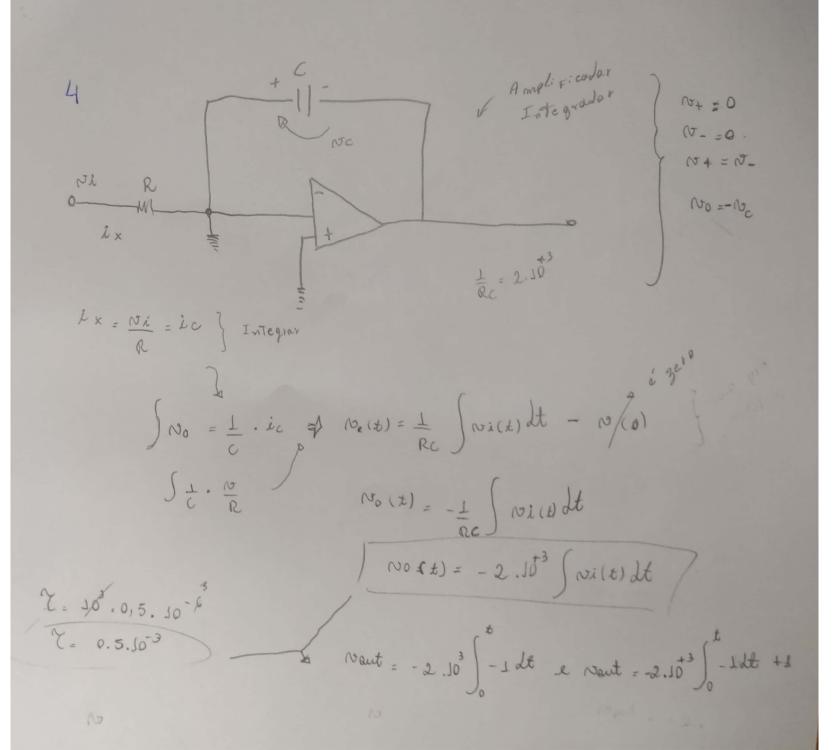
P/Wh is Jew alunt para as equappes  $\chi_1, \chi_2, \chi_3$ 
 $\chi_1 = 1.286.30^{-3}$ 
 $\chi_2 = 4.37.30^{-3}$ 
 $\chi_3 = 1.458.30^{-3}$ 

When  $\chi_4 = \frac{1}{\chi_4 + \chi_2 + \chi_3} = \chi_4 = \frac{1}{\chi_4 + \chi_5} = \frac{1}{\chi_5}$ 
 $\chi_5 = 1.458.30^{-3}$ 

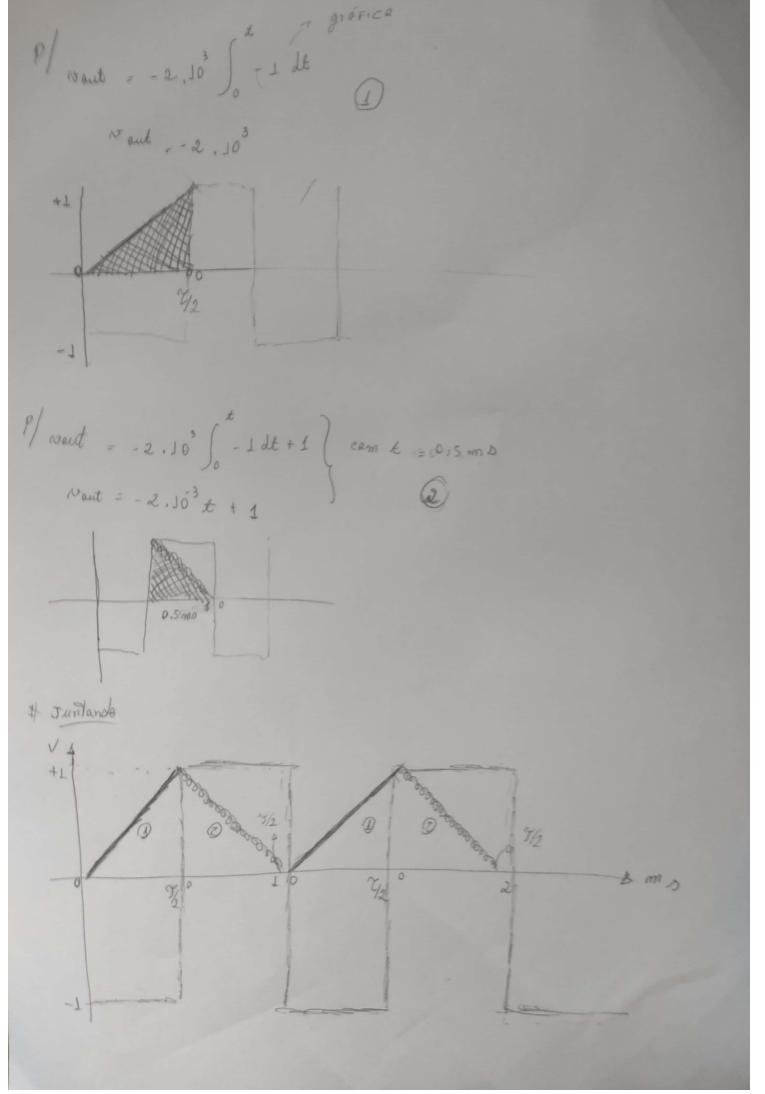




Digitalizado com CamScanner



Digitalizado com CamScanner



Digitalizado com CamScanner