Refounds de densignt I3,: Ic1 = =) In. R1 - VREZ = 0 =) In = VRED = 0,7 = 700 = 700 A =) Iz, = 7m A Vin= VEB2 + VEBA + Te2 R2 =) \(\var{k}_2 = \frac{Vin-2 \bilde{BE}}{120} = \frac{20-1,5}{10.05} = \frac{18.6}{10.5} = 1.86 m H Vim = VBE, + KE1 + 4 0) VCE1 = Vin-VBE, -12 = 16,6 V Vin = Vita + Ica Da => Veto= Vin- Ica Ra = 20 - 1,86.153 104 => VcE2 = 1,4 V Amplification de prostre: Vim = Ig(R3+R4) + VAE3 + 1/2 =) I3 = Vm-VAE3-1/4 = 166 = 0,52mA Ic3 = Ic4 = IR3 = 0,26 mA VCE, = VCE2 = VRI + VZ = 2,7 20,7 = 3,5V Vin= 17 Re4 + VAIg + JC2 Rg =) ICZ = 20-0,7 = 8,4m A = IC8 Jes=Ir6 = 118 = 4,2mA VACT: 0 =) VCE4=1/CE8= 9,4V VeEG=VeES=Vin-VeE3-Ics. Rs=5,4V VR9 = Veut + 2 VAE = 1941/ [Rg = VRg = 1,1 m/A I(g= IRg = 1,1m)

Veg = Vm - Vrg = 86 V

To ERS:

Icpo = Lout = Voul = 10 = 25 mA

Veg = Vin - Vout = 10 V

Veg = Veg = Vin - Vout = 10 V

Veg = Veg = Veg = 9,3 V

I,11 = Icro = 0,29 mM, B=100

Brokefil:

212,21 211 functioneri in blorg = 1

I-12 = Icro = 0 A