Aufgabe 23 C) IC = IL - IA = C/L - WA = UB- UEE - UEE = CB - (RI + RA) CLCE = - 2 kar UCE + 20mA d) UE= ZISV, Ic= Man A 11mA =- 2 hor UCE + 20mA => UCE = 415 V e) $U_E = U_B + U_B = -I_B R_B + U_{BE} = 7 R_B = \overline{I_B}$ => RB = 32,7kR SITO = IC+ IB = IC P- UCE. IC - 4,502 - 1/m A = 0,050 Aufqube 24 geg: 1A = 2mA B = 200 UBE = 0,7 URE = 2.025 V UB = 20V 1n2 = 2mA IB = IA = LONA RE = URE = IA+IB = 1202 RZ = UBEI URE = 1,482 Un = R 1 I In The Star In - Star IB + IR2 to Ran Spalaz UB = UDA +URZ -> Upa = UB - URZ => a R1 = 20V-2mA · 1,4202 = 8,682

Aufgabe 25 Ub = 20V , B1 = 100 , B2 = 130 , IEZ = 0114 1.: IE, = IRE REVE : RE = CIRE = LOV = 10002 2.: IR2 = 10 IBT IE2 = IBT + IC2 IC2 = B2 IBT2 => IE2 = (14 B2) IBT, I BTZ = IEn = IBTA + ICA = (1+BA) IBTA => IBTA = IEZ (4+BA) (4+BZ) URZ = UBEN + UBEZ + URE = 11 13 V (11,4V) => R2 = CIR2 = NV = 195 & R IR1 = IR2 = 83,14MA $U_{R1} = U_{B} - U_{R7} = 8.7U - 1 Em = I_{Em} Em Society: Ru = I_{R1} = I_{R1}$ $R_{Eim} = \left(R_{I} + R_{BE} + R_{BE}$ RBEZ = 1 = 6,502 I= = 1 = 0,76 mA RBEN = UBE = 855,2602 RE = 13MR fg = 21TRC (=> 27TRfg = C 1par = RARZ rein - 602 rein (RAHRZ)+RARZ