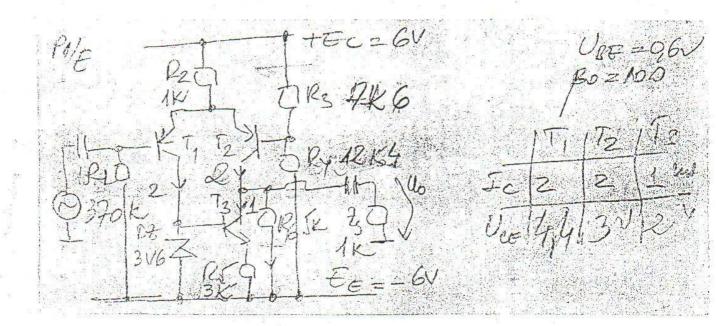
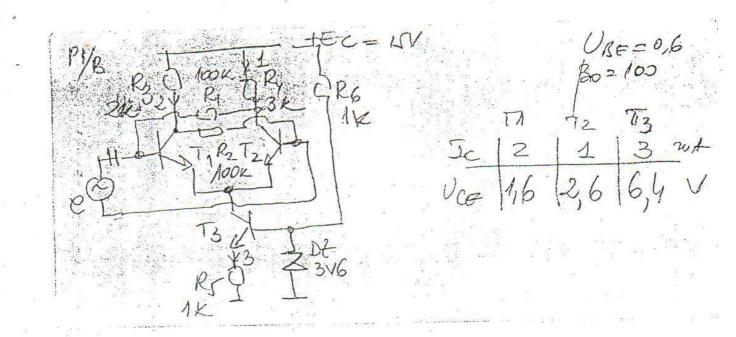
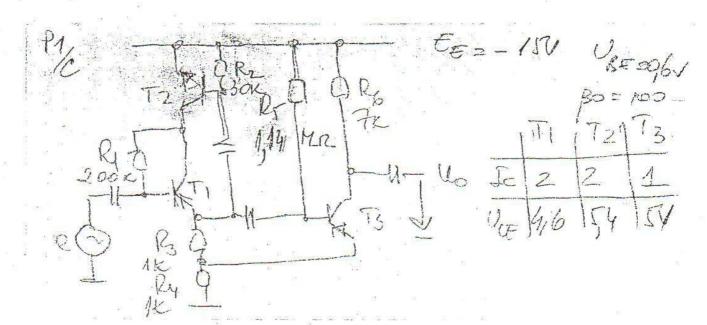
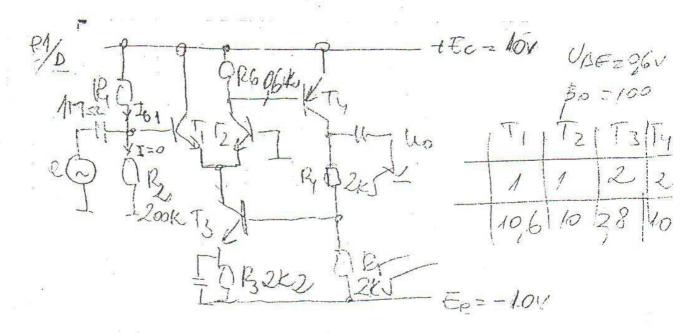
-A - PSF (execuple)



LOKGIN IK TE 1 6,6 9,1 13,4 十七6=-10







$$V - \mathcal{E}_{G} = U_{\delta G} + R_{\delta} \frac{I_{CS}}{\beta_{0}}$$

$$15 = 0.6 + \frac{120}{100} I_{CS} \Rightarrow \overline{I_{CS}} = 2ucA$$

$$V I_{Q} + I_{CZ} = I_{CS}$$

$$V R_{1} \frac{I_{Q}}{\beta_{0}} + V_{K}E = V_{\delta E} + R_{2} \frac{I_{CZ}}{\beta_{0}}$$

$$\Rightarrow I_{Q} = I_{CZ} = IucA$$

$$- \mathcal{E}_{E} = R_{1} \frac{I_{Q}}{\beta_{0}} + U_{\delta E} + V_{\delta E}$$

$$I_{S} = I_{S} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} = I_{S} \frac{I_{S}}{\beta_{0}}$$

$$R_{1} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} = I_{S} \frac{I_{S}}{\beta_{0}}$$

$$R_{1} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} + I_{S} \frac{I_{Q}}{\beta_{0}} = I_{S} \frac{I_{S}}{\beta_{0}} = I_$$

$$V = \frac{1}{6} =$$

Ph ves

5. 1 = Ves, + 3.1 = Ves, = 2V

1221(2+2)+ Ph + Ves, + 36 (cs, = 3)

44

44

L

3V

Ves,

12

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10.755

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$$V(R_3 I_q + R_2 \frac{Ie_2}{\beta_0} + V_{EF} = V_{EF} + R_1 I_q + R_2 I_{C2})$$

$$V(R_3 I_q + R_2 = I_{C3})$$

$$V(R_3 I_q + I_{C2} = I_{C3})$$

$$V(R_3 I_q + I_{C3} =$$

La I_{2} $V_{1}SG = R_{2} \frac{I_{C2}}{BD}$ $Q_{1}G = \frac{30}{100} I_{C2} = 2 I$ $-E_{E} = R_{J} - \frac{I_{US}}{\beta_{0}} + U_{SE} + R_{y} \left(I_{q} + I_{C_{3}} \right)$ $15 = 0.6 + 1.2 + I_3 (1 + \frac{l_5}{100})$ 12,4 = IG (1+ 1/4M2) =) [13=1mg $V_{CE_1} = V_{RE} + R_1 \frac{J_4}{\beta_0} = 9.6 + \frac{200}{100}.2 = \frac{4.6 \text{ V}}{300}$ - Et = Vie,+Viez+ BIg+Ry(IG+Is) 15 = 4,6 + VEz + 2 Vaz 2 5, 4 V - Fez Ry[Iq+Icy] + VCES+R6Ics - JULE = JULE

Fg. Ry + VKG - VSE = EC By = 10.100 = 1 mt Ica R6 = URE Ici 0,6K = 2 % =) Icz = 1 wt Ic3 2 Ig+ Ic2 = 2 mt. UBE + B(IG+ICZ) = RJ-Icy 96 + 2 - 2K2 = 35K IG VCE, = R = G + Bit 2 1000. 1 + 0,62 106 1 (t) Z VCE, - RS JC2 = 10,6-0,6.1=101 ECTE = VCET+VCE3+BIC3 20 = 126+ Vaz +22.3 Var 2 20 - 17 ? = 28 V

(0) - UDZ = UBE + R5- Ic3 1) Ec-E= = R2 (Ig+Icz) + UBF + R + 4 Bo REZ VISE + (RIIRy) Ice - EE Rylly Bo PE Rylly Theremin & Re 3/ IRs = Lcz - Icz + E= - BY V Ro IR = VCB + Rody Uce, + UBE = Uce2+ UcE3 1 Fc-Ee= P2(IG+I12)+ VEF,+ 08 Calcule (1) 3,6 = 0,6 + 3 Jiz => [Jiz = /mix Re < 7K6 -> Neglijer IBZ in(3) $\frac{320.19}{100} = 12.7512,4$ JG 2 193年 12 - J = Z,01 = ZmA 2) 12 = (2+Icr) + 0,6 + 370 & = (Sicr 2 - Kul)

