dVB6 = -2 -W = @ 300 K VRE = VT Ru (O lond) @ 300°K = 0.65 5 V @ 300°K しゃまま= 文(3656×+2~V/c)=16.167./0C 一步,(語)-节士母 TC=TSC TT 一等一等是一种是是一种 → V&=-衛从(張)

2)
Re VR.: 10x

 $M_{*}: V_{7} = 0.6V$ $M_{*}C_{0x}W_{L} = 200 M_{*}/V_{*}^{2} \lambda^{2}0$

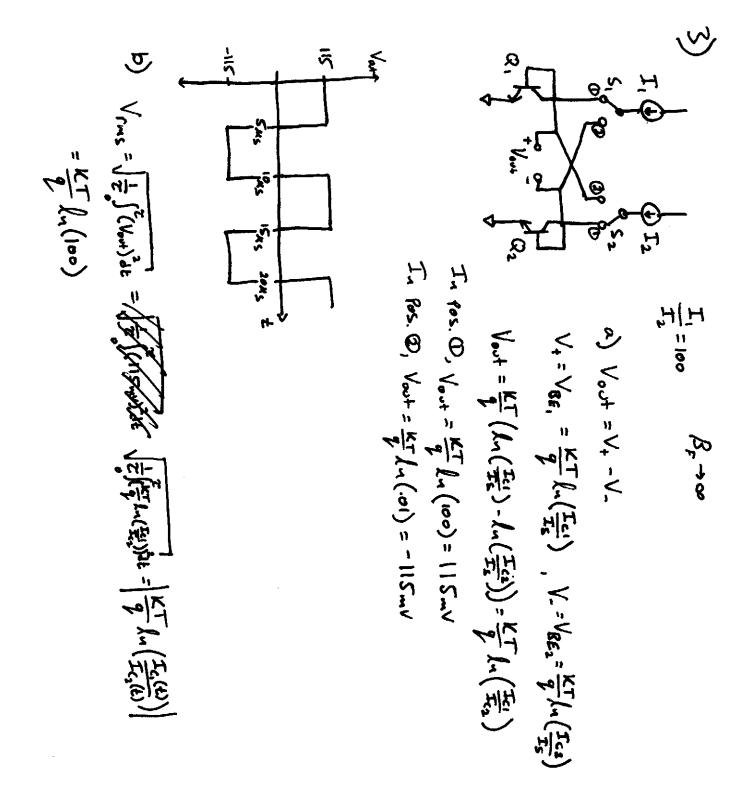
 $Q_2: \mathcal{I}_{S} = 10^{-6} \text{A}, \text{V}_{A} = 00, \text{V}_{C6544} = 0.2 \text{V}$ $\beta_F = \beta_0 = 200$ $\beta_0 = \beta_0 = \beta_0 = 0$

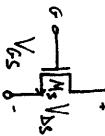
(ation, a)
$$T_{b_1} = T_{b_2} = (\frac{1+\beta_F}{\beta_F})T_{c_2} = 50.25 \text{m/s}$$

In Saturation, In= = = = KunCox (Ves-VT)= = = (2004/V2)(Vf-0.6V)==50.254A Vz=1.31v

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Workesteres vo=Vc-(to+Te) & = 2.99v=3v Vbs, = Vo - RBIB - VBE2 = 2.99 - RB 50 - 0.6 V W > 0.7 lv M, is saturated so long as Ubs 2Vcs-4 = 1.31v-0.6v = 0.71v 2.99-0.71-0.6V > RB -> RB < 6.72 M.D. .25mA





M, Should remain in the triode region of operation, Since Vos. = Vos - Vosa Vgs = Vgs - Vbs, , So Vas, needs to be small to keep Vgs > V+.

Trode: Vbs 2 Ves - VT

3+ @ M, +M2 and Ms Branchows.