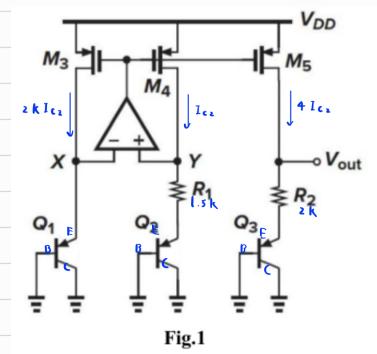
$$I_{03}:I_{04}:I_{05}=zK:I:4$$
 $I_{04}:I_{05}=zK:I:4$ 



Ic = Is · e Var

In Ic = In (Is) + Ver

In Ic - In Is = VBE

VT (In Is) = VBE

$$V_T \ln \frac{I_{c_1}}{I_S} - V_T \ln \frac{I_{c_1}}{I_S} = R_i I_{c_2}$$

$$V_T \left( \ln \frac{I_{c_1}}{I_S} - \ln \frac{I_{c_2}}{I_S} \right) = R_i I_{c_2}$$

$$= V_{BE3} + 4 \frac{V_T \ln(zk) R_z}{R_z}$$

$$\frac{\partial V_{out}}{\partial T} = \frac{\partial V_{0E3}}{\partial T} + 4 \frac{R_2}{R_1} \ln(2k) \frac{\partial V_T}{\partial T} = 0$$

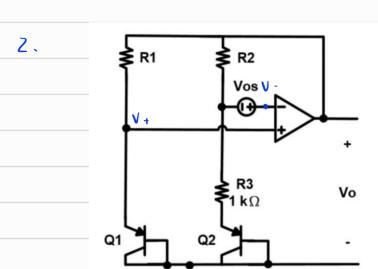


Fig.2

$$V_{\thetaE} = V_{\thetaE} + I_{C2} \cdot R_3$$

$$V_{T} \left( n \left( \frac{I_{C1}}{I_{S1}} \right) = V_{T} \cdot I_{n} \left( \frac{I_{C2}}{6I_{S1}} \right) + I_{C2} \cdot R_3$$

$$V_{T} \cdot I_{n} \left( 6 \cdot \frac{I_{C1}}{I_{C2}} \right) = I_{C2} \cdot R_3$$

$$\exists c, = \frac{V \cdot V + }{R}, \quad I_{cc} = \frac{V \cdot V - V - }{R}$$

$$I_{c_k} = \frac{V_T \ln b}{R_3}$$

$$\frac{V^{\circ}}{\partial T} = \frac{V_{6E_{1}}}{2T} + \frac{I_{6}}{R_{3}} + \frac{\partial V_{7}}{\partial T} (Ik + R)$$