$$B = \frac{R_5}{R_F + R_5}$$

(b). I ->
$$V_{00}$$
 $P = \frac{I_{r}}{V_{t}} = \frac{R_{63} \cdot R_{51}}{R_{53} + (R_{r} + R_{51})}$
 $A_{0L} = \frac{I_{0}}{V_{1}} = \frac{J_{m_{1}}R_{01}}{1 + J_{m_{1}}[R_{51}||(R_{r} + R_{51})]} \cdot J_{m_{2}}R_{02} \cdot \frac{J_{m_{3}}}{1 + J_{m_{3}}[R_{51}||(R_{r} + R_{51})]}$
 $= \frac{J_{m_{2}}R_{01}}{[R_{51}||(R_{r} + R_{51})] \cdot [R_{51}||(R_{r} + R_{51})]} \cdot [R_{51}||(R_{r} + R_{51})] \cdot [R_{51}||(R_{r} + R_{51})]}$
 $= \frac{J_{m_{2}}R_{01}}{[R_{51}||(R_{r} + R_{51})] \cdot [R_{51}||(R_{r} + R_{51})]} \cdot [R_{51}||(R_{r} + R_{51})]$

$$R_{0,OL} = R_{0}||R_{E}|$$

$$R_{0,CL} = \frac{R_{0}||R_{E}|}{1 + \beta A_{0L}}$$

$$I_{in} \bigoplus_{k=1}^{\infty} R_{E+R_{3}}$$

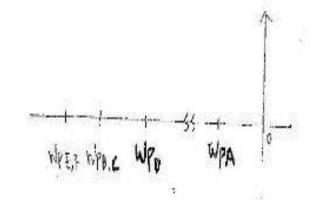
$$\beta = \frac{-R_5}{R_5 + R_F}$$

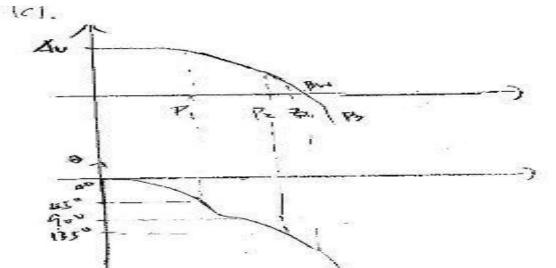
$$Aoc = \frac{J_0}{I_{1n}} = -(R_F + R_5) \cdot g_{m_1}R_0 \cdot \frac{g_{m_2}}{1 + g_{m_2}(R_5|IR_F)}$$

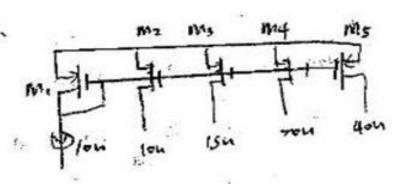
$$Acc = \frac{Aoc}{1 + \beta Aoc} + \frac{Aoc}$$

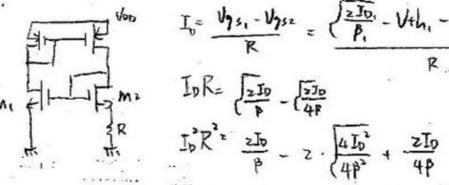
$$\frac{dy_0}{ds} = \frac{g_{m7}}{c_0} \qquad (g_{m1} - g_{m3} + g_{m$$

(if Cgs > Cgd > 2 other)









$$I_0 = \frac{V_{751} - V_{752}}{R} = \frac{\sqrt{\frac{2J_0}{\beta_1}} - V_{752}}{R} + V_{752} + V_{752}$$

$$I_0 R = \sqrt{\frac{2J_0}{\beta}} - \sqrt{\frac{2J_0}{4R}}$$

$$M_1 = \frac{5n}{\ln 2}$$
, $M_2 = \frac{5n}{\ln 2}$, $M_3 = \frac{5n}{\ln 3}$

$$I_0^* R^2 = \frac{2I_0}{\beta} - \frac{2I_0}{\beta} + \frac{2I_0}{4\beta}$$