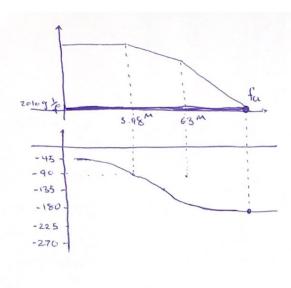


$$P_{A} = \frac{1}{R_{A}C_{A}} = \frac{1}{C_{P}(10^{K})} = \frac{1}{0.5^{PF}(5^{K})} = \frac{1}{0.5^{PF}(5^{K})} = \frac{1}{2.5} = \frac{1}{63^{MHZ}}$$

$$P_{0} = \frac{1}{R_{0}C_{0}} = \frac{1}{C_{L}(r_{0})} = \frac{1}{1^{PF}(\frac{10}{0.25})} = \frac{1}{40} = \frac{3.98}{5} = 3.98^{MHZ}$$



-180

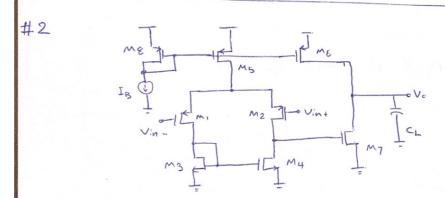
-225 -270-

KCL ①:
$$l_{in} = \frac{V_2}{R_1} + V_2 C_1 S + (V_2 - V_0) \frac{1}{R_2 + \frac{1}{C_2} S}$$

$$(R_z - \frac{1}{2}) C_2 S + 1 = 0$$
 => $S = \frac{1}{(\frac{1}{2} - R_z) C_2}$

)) if
$$C_{e} = 2^{PF}$$
 => $R_{e} = ?$ => $Phim = 63^{\circ}$

=> $C_{e} = \frac{1 - Pwn P_{A} C_{A}}{P_{A} Pwn}$ $\frac{P_{A} = \frac{1}{R_{A} C_{A}}}{P_{A} Pwn}$ $C_{e} = \frac{1 - Pwn \left(\frac{1}{R_{A}}\right)}{\frac{1}{R_{A} C_{A}}}$ $C_{e} = \frac{1 - Pwn \left(\frac{1}{R_{A}}\right)}{\frac{1}{R_{A} C_{A}}}$



$$W_{P_1} : 10^4 \frac{R_{edd}}{Sec}$$

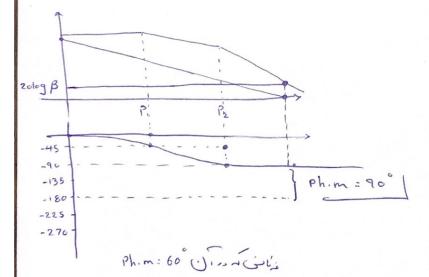
$$W_{P_2} : 10^5 \frac{R_{edd}}{S}$$

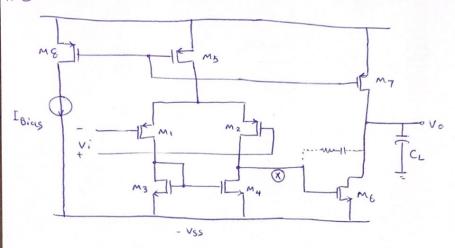
$$I_{g:1} MA \quad fo:45^k$$

$$Vov:0.2 V$$

$$\left(\frac{\omega}{L}\right)_5 : 2\left(\frac{\omega}{L}\right)_6 : 2\left(\frac{\omega}{L}\right)_8$$

$$\left(\frac{\omega}{L}\right)_7 : \left(\frac{\omega}{L}\right)_{3,4}$$





9mi= 1mmho

(isi) if Ph.m = 45° => C = ?

9m6 : 4 mmho

Ri: 250 K

R2 = 100 K

C, = 0.8 PF

Cz=10PF

منزی طای (آ علىم حشا مترباي رما آدس دور

$$\frac{1}{1} = \frac{1}{1} = \frac{1}$$

$$Av_{1}:\left(\frac{v_{0}}{v_{\text{in}}}\right)_{1}=\frac{g_{m}}{g_{m}+g_{m}}=\frac{g_{m}}{g_{m}}=\frac{1}{2}$$

$$\frac{1}{2^{-\frac{1}{2}}} = \frac{1}{3^{\frac{1}{2}}} = \frac{1$$

$$3 \text{ resb}$$
: $Vin_{a} = Vin_{a} =$

$$Av_3 = \left(\frac{V_0}{V_{in}}\right)_3 = \frac{g_m}{g_m} = \frac{1}{2}$$

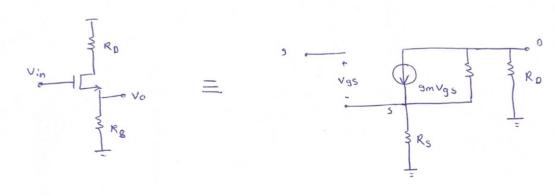
$$4 = \frac{1}{\sqrt{100}} =$$

5 rest:
$$V_{in} \sim 1$$
 $V_{in} \sim 1$
 V_{in}

AV Total = Av. Av 2 Av 3 Av 4 Av 5 Av 6 = 6 (1/2) = 3

$$\frac{1}{3} \frac{1}{3} \frac{1}$$

منری طانی (2) معاشی علاقی علیم مناقبان منا آدیخ بر،



Rout

