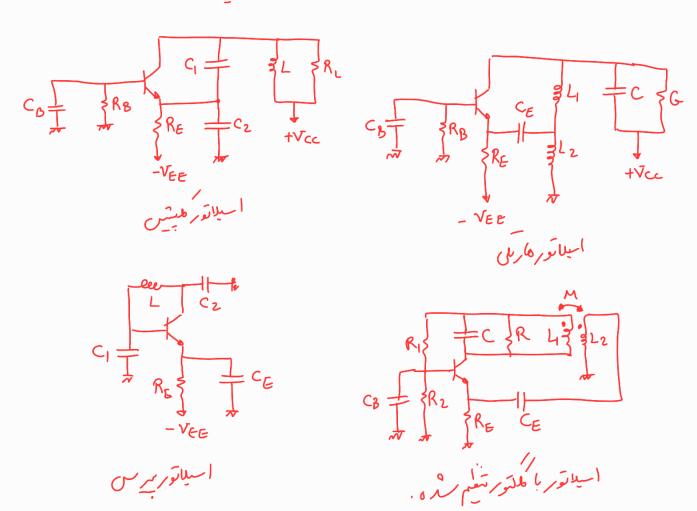
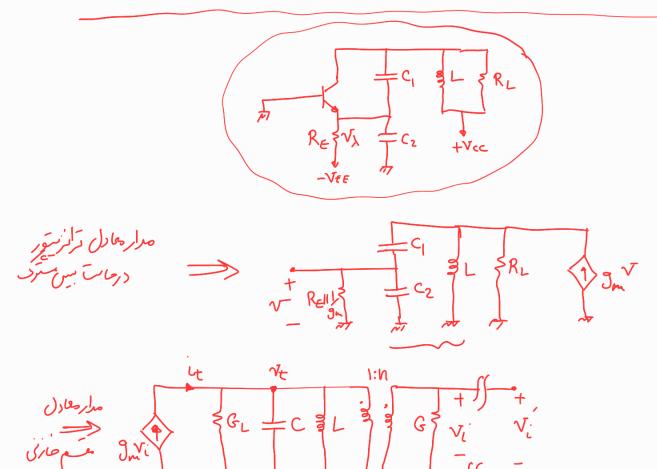
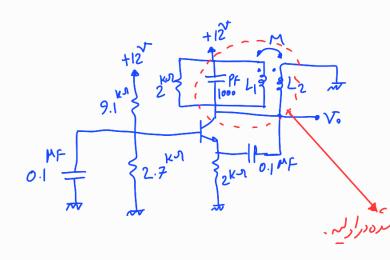
- عیل نوسان سازها با رزرنا توراز نوع سارات مشرده : به بررسی هیستی مایردارنم :





براساس مؤدار همه برحب به وسادر علف آل ی تران ویزدیای علق است اج درد.

سَال: درصارزر (۲) مراست آورمیا



$$L_1 = 10^{MH}$$
, $L_2 = \frac{1}{160}^{MH}$, $M = 0.25^{MH}$

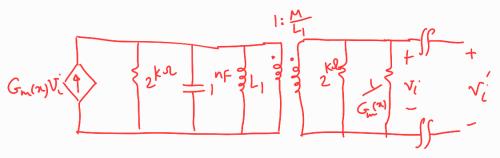
· NA, 9m CUNT TOUR DCULE

$$V_{BB} = 12 \times \frac{2.7}{2.749.1} = 2.7^{V}$$

$$g_{mQ} = \frac{I_C}{v_T} = 38^{mS}$$

,
$$V_{\lambda} = R_{E} I_{C} = 2^{V}$$

يس عه : (سارمعادل)



$$\omega_{\bullet} = \frac{1}{\sqrt{16}} = 10^7$$

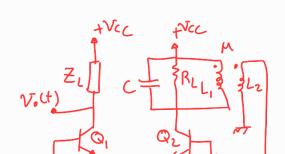
$$, n = \frac{M}{L_1} = 0.025 \times 1$$

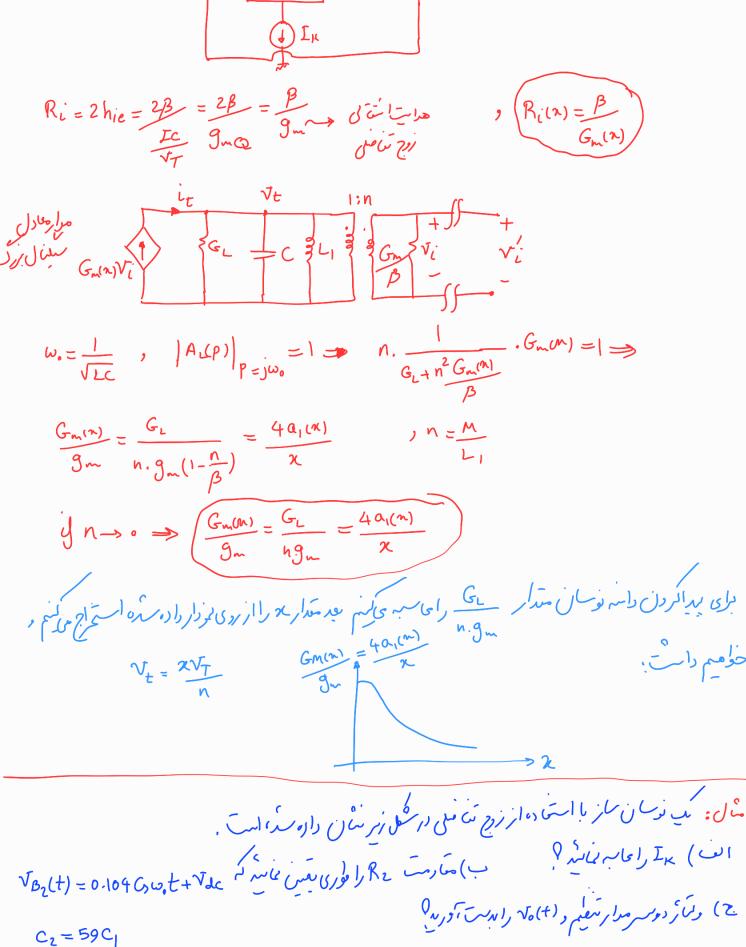
$$|A_{L}(j\omega_{0})|=1 \Rightarrow \frac{G_{m}(m)}{g_{m}} = \frac{G_{L}+n^{2}G_{E}}{N(1-n)g_{m}} \Rightarrow \frac{G_{m}(m)}{g_{m}} = 0.53$$

المرافعة بيستى المربعة المربع

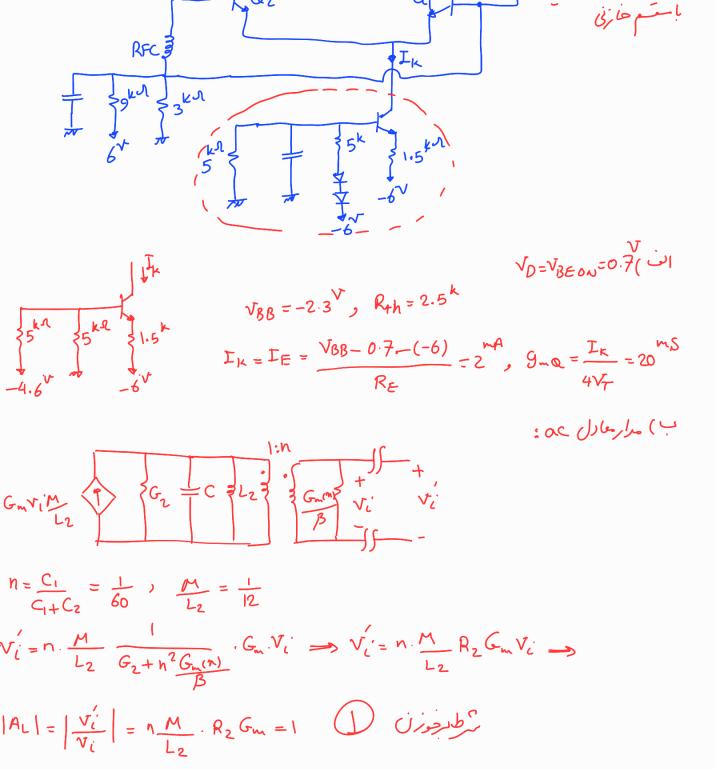
$$\chi = 3.5 \Rightarrow V_{o}(t) = 12 - \frac{2V_{T}}{2}C_{o}(10t) = 12 - 3.6 C_{o} 10t$$

- میں زے سارهای سوسی ا زوج تعامل:





 $C_2 = 59C_1$ $\omega_0 = 6 \times 10^6$ $0 = 6 \times 10^6$ 0 =



$$V_{i}' = n \cdot \frac{M}{L_{2}} \frac{1}{G_{2} + n^{2} G_{m}(n)} \cdot G_{m} \cdot V_{i}' \implies V_{i}' = n \cdot \frac{M}{L_{2}} R_{2} G_{m} V_$$

$$|A_L| = \left| \frac{V_i'}{V_i} \right| = n \frac{M}{L_2} \cdot R_2 G_m = 1$$
 Uijeb?

$$V_{i} = V_{B2} = 0.104 \implies x = \frac{V_{i}}{V_{T}} = 4.2$$

$$\frac{G_{m}(\alpha)}{g_{m}Q}\Big|_{\chi=4.2} = 0.56 \Rightarrow G_{m}(\alpha) = 11.2^{m}$$

$$n \underbrace{M}_{L2} R_2 G_m = 1 \implies R_2 = 64.3 \times 2$$

$$\omega_{o}' = \frac{1}{\sqrt{\frac{nF_{o}}{2} x_{14}^{N}}} = 6 \times 10^{6} = \omega_{o} \implies (7_{o}(t) = R_{L} \times 10^{c} = 4 \times G_{m} V_{i} C_{i} \omega_{o} t = 4.66 C_{i} 6 \times 10^{6} t)$$