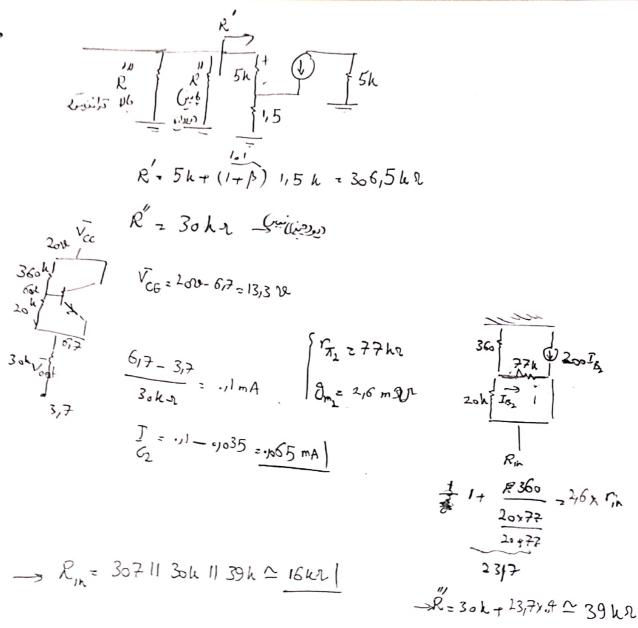
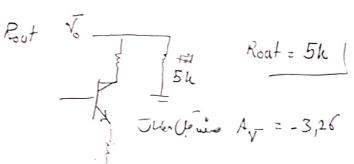


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$$R_{in} = (R_i \parallel R_2) \left[\left(\frac{r_i}{\Lambda} + l_i + \beta \right) R_{E_i} \right]$$

$$R_{out} = R_L \parallel R_C$$

$$\vec{S} = R_{E}^{2} (1+\beta) i_{b} + r_{h}^{2} i_{b} \rightarrow i_{b}^{2} = \frac{V_{S}}{1+\beta} y_{b}^{2} + r_{h}^{2}$$

$$\frac{\overline{V_0}}{\overline{V_S}} = -\frac{\beta(R_L || R_C)}{(1+\beta)R_{E_1} + r_{\overline{M}}} = -\frac{\beta(R_L || R_C)}{(1+\beta)R_{E_1} + r_{\overline{M}}}$$

$$\longrightarrow \vec{I}_{\mathcal{E}} = \vec{I}_{\mathcal{C}} = \frac{R_{1} \vec{V_{\infty}}}{R_{1} + R_{1}} - \vec{V_{\beta 6}}$$

$$\xrightarrow{R_{6} + R_{6}}$$

(rlylles

