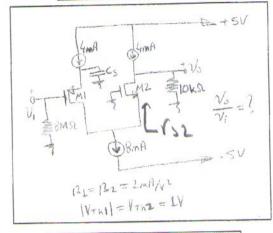
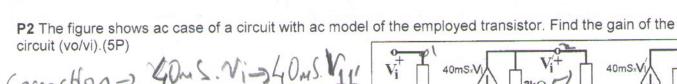
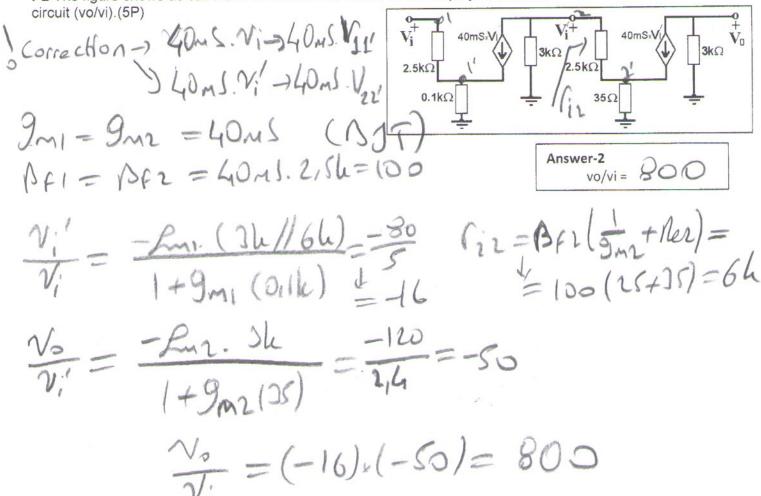
imza:

P1 Find the ac gain of the circuit (vo/vi).(5P)







P3 In the figure, ac case of a circuit is given. Find the differential gain of the circuit (vo2-vo1/vi).(5P)

$$\frac{V_{01}}{V_{i}} = \frac{V_{02}}{V_{02}} \cdot \frac{V_{e1}}{V_{b1}} = (g_{M2}U_{b}) \frac{g_{M1} f_{12}}{f_{12}} \frac{v_{02} - v_{01}}{v_{i}}$$

$$\frac{g_{M1}}{g_{M1}} = \frac{g_{M2}}{g_{M2}} = \frac{g_{M2}}{g_{M1}} = \frac{g_{M2}}{g_{M1}} = \frac{g_{M2}}{g_{M2}} = \frac{g_{M2}}{g_{M2$$