Ele.II summer15 mt3 Name:

SurName:

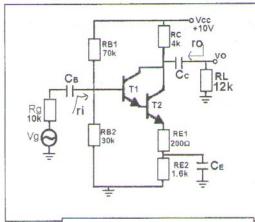
Number:

P1 $V_{BE1}=V_{BE2}=0.6V$, $\beta_{F1}=\beta_{F2}=100$, $V_{T}=25mV$ are given for the Transistors in the figure.

P1a) Find I_{E2Q}.(2p)

VS12= 2 . 10 = 2V

imza:



Answer-1a IE20= IMA

P1b) Find ac model of the circuit excluding the source and the load.(3p)

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N= 201/1001/10 2011 10= Nc= Ch

G12=1-6-12. (anz+0,24)=2,5M, 214 = 2,5M, 214 = 16.24

P1c) Find ac gain of the circuit (vo/vg) by using the ac model obtained in part b.(2p)

Answer-1c (vo/vg)=

2 Dich 2

16.V; = 21/616). 12 = -8