EXPERIMENT1   EXAMINATION OF TRANSISTOR SOUND AMPLIFIERS 0,25W

hFE=100, hfe=100, IC>>IB, ic>>ib

1-) Analyze this circuit for DC. Find IC, IB for each transistors.

2-)

EXPERIMENT 1

EXAMINATION OF
EMITTER GROUND AMPLIFIER
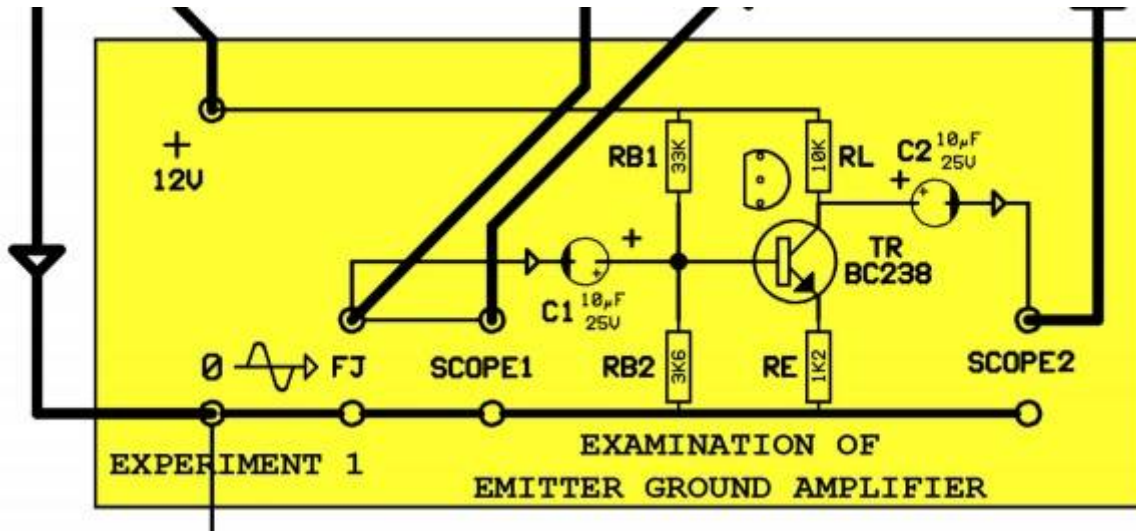
Make the DC and AC analyze of this circuit.
hFE=50 hfe=50, IC>>IB, ic>>ib
a) Find IC, IB
b) Find ic, ib
c)Find voltage gain
d)Measure the IE with using Ampermeter

3-)
For a JFET,
IDSS=15mA, Vp(V cut-off)=-4.5V

a) Find the ID for VGS= - 3V
b) Find the ID for VGS= -4.5V
c)Find the ID for VGS= -1.5V
d)FInd the ID for VGS=0V
d) Draw a JFET and sign pins (legs) of JFET.
e)Draw the output characteristics of JFET for given and calculated values in (a-d)

Notes:

- It is adviced to read all "theory" documents of experiments. (especially 6 and 9)
- You should learn all topics. Exam questions are not restricted with these topics
- In exam it is forbidden to use calculator. But in this example you can solve with calculator, because the values are not well selected to solve easily by hand.
- It is adviced to read "ee working sheets" document.