



Electronics and Communication Department

LAB 1 Notes

CE AMPLIFIER

Name	عبدالرحمن علي موسى
Sec	4

• Dc Measurement

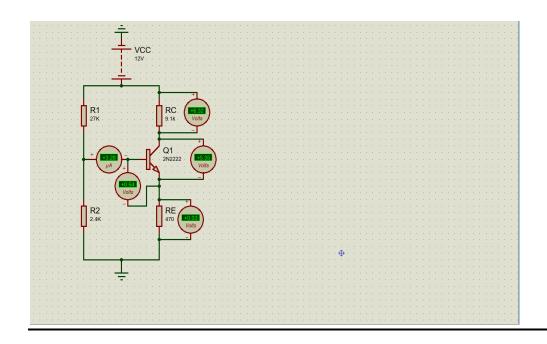
 \circ VCE=5.35 v I_C =0.69 mA

 \circ VBE=0.64 v $I_{E=}0.70$ mA

 \circ VRC=6.32 v $I_{B=}3.28 \mu A$

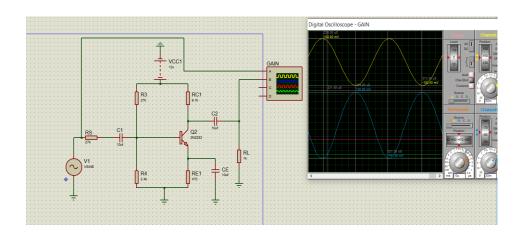
 \circ VRE=0.33 v β =210.36

 \circ α =0.98



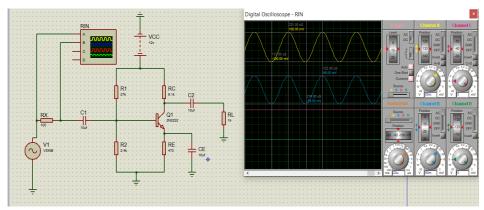
• Gain

- Vspp=200 mV Vopp=282 mV
- \circ Av=1.41 v/v Av (dB)=2.98 dB



• Rin

- Vxpp=200 mV Vx1pp=185 mV
- lxpp=0.15mA
- o Rin=1.33 KΩ



• Rout

- Vxpp=200 mV Vx1pp=170 mV
- Ixpp=0.3 mA
- o Rout=666.6 Ω

