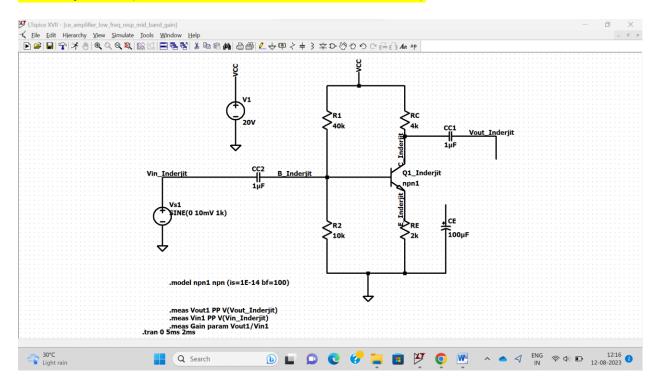
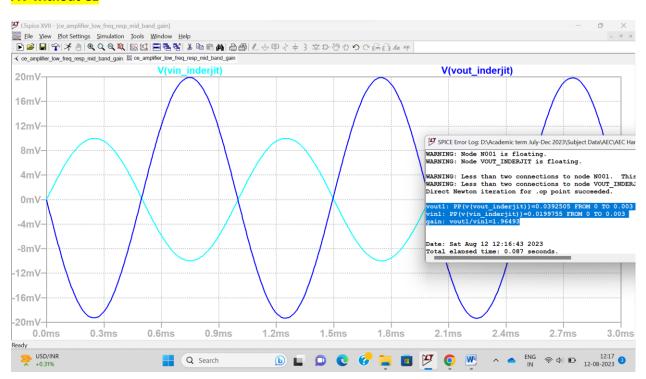
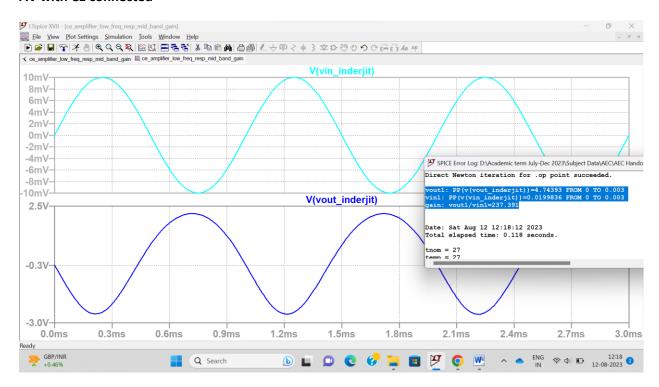
CE amplifier (numerical 12 simulation Results)

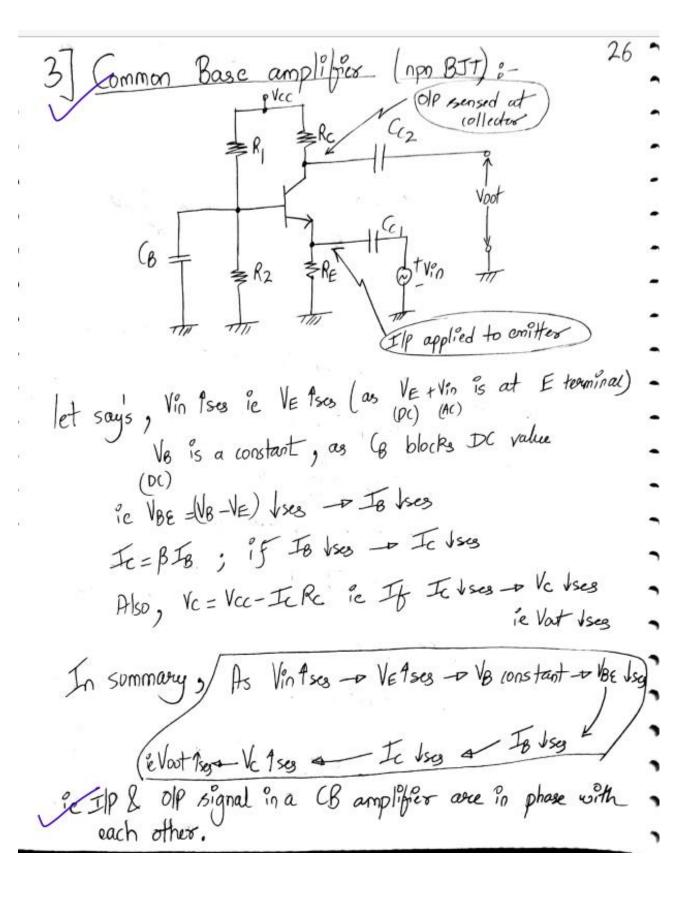


AV without CE

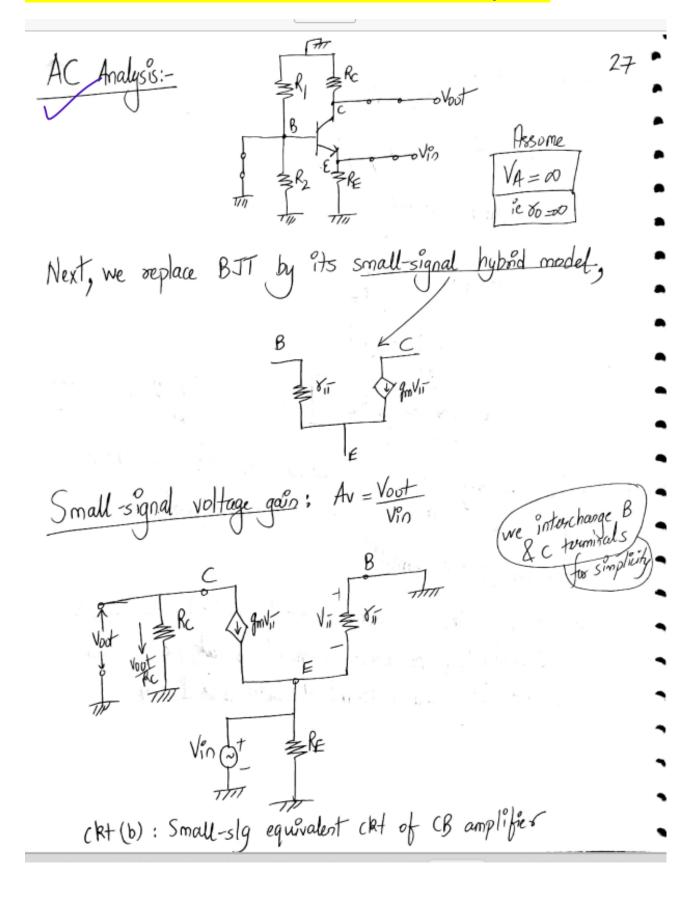


AV with CE connected





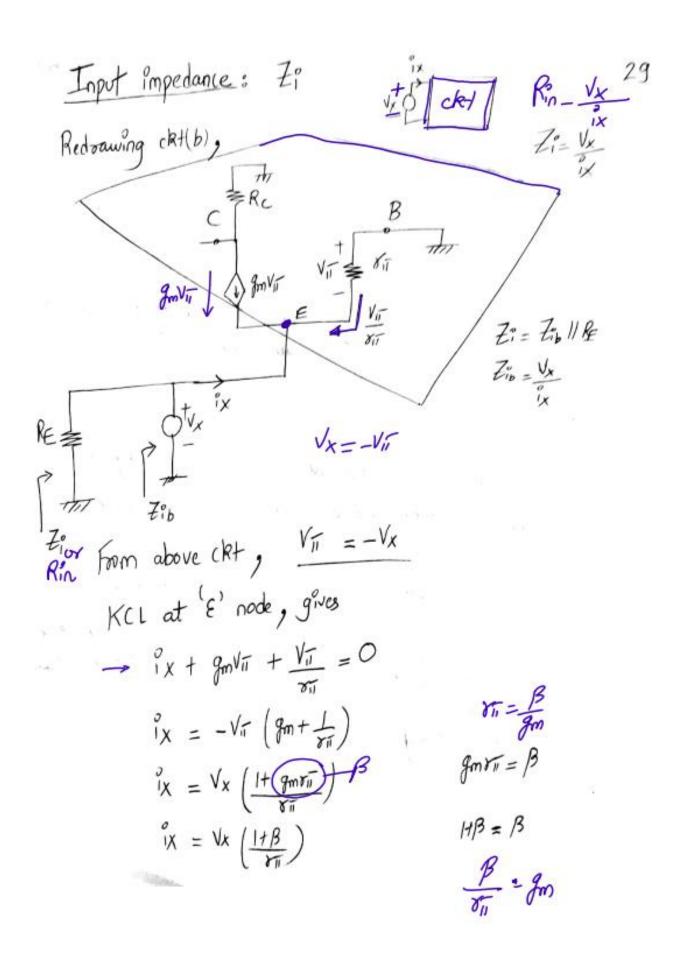
DERIVATION OF RIN and ROUT for Common Base amplifier:



From ck+(b), Vi =-Vin KCL at (c' node, gives gmVii + Voot = 0 ie - gmvin = - Vout le Vot = gmRc -- Small -sla voltage gain le Ar = +9mRc

- The tre sign in gain fromula indicates no phase difference bett the input and olp signals. in a Common Base ampl

- It is called " (ommon-base" amplifier since, in AC analysis, the base terminal is at ac ground & act as common terminal bet I/P & dp.



$$|X| = \sqrt{x} \left(\frac{\beta}{y_{11}}\right)$$

$$|X| = \sqrt{x} q_{11}$$

$$|X| = \sqrt{x} q_{$$

