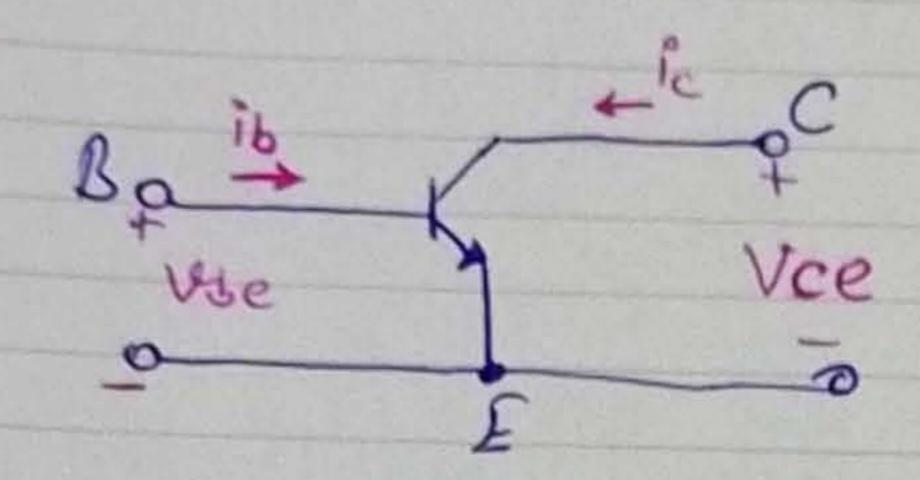
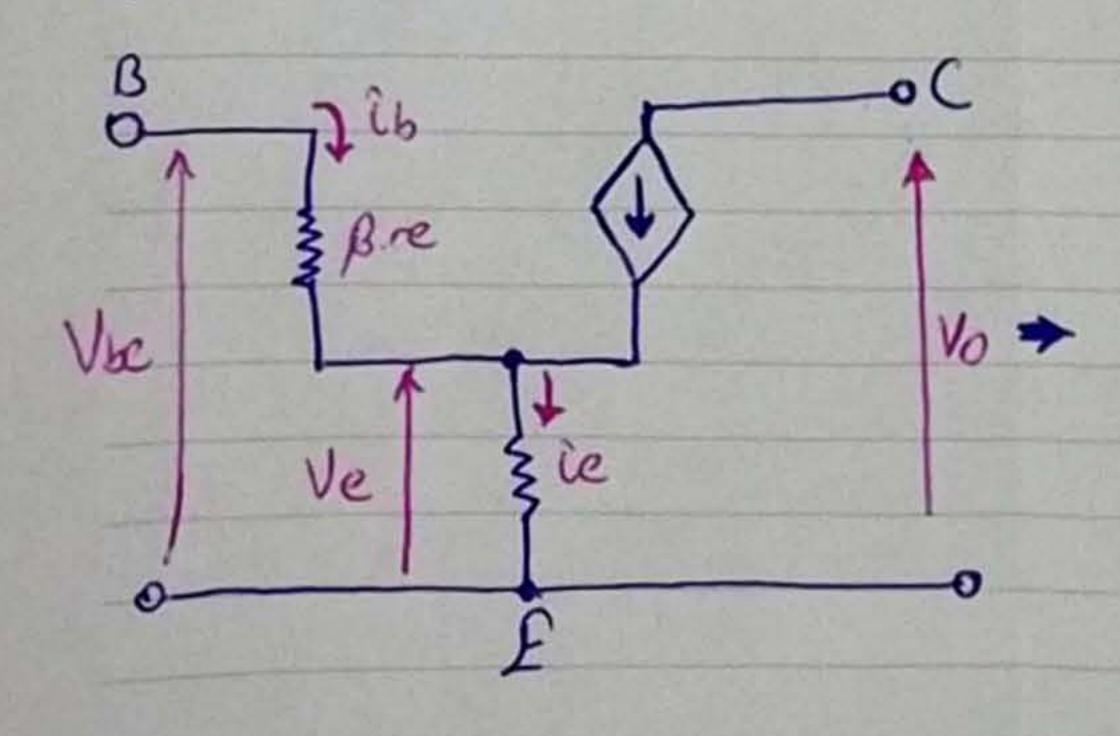
Le deger AC Devre Modeli

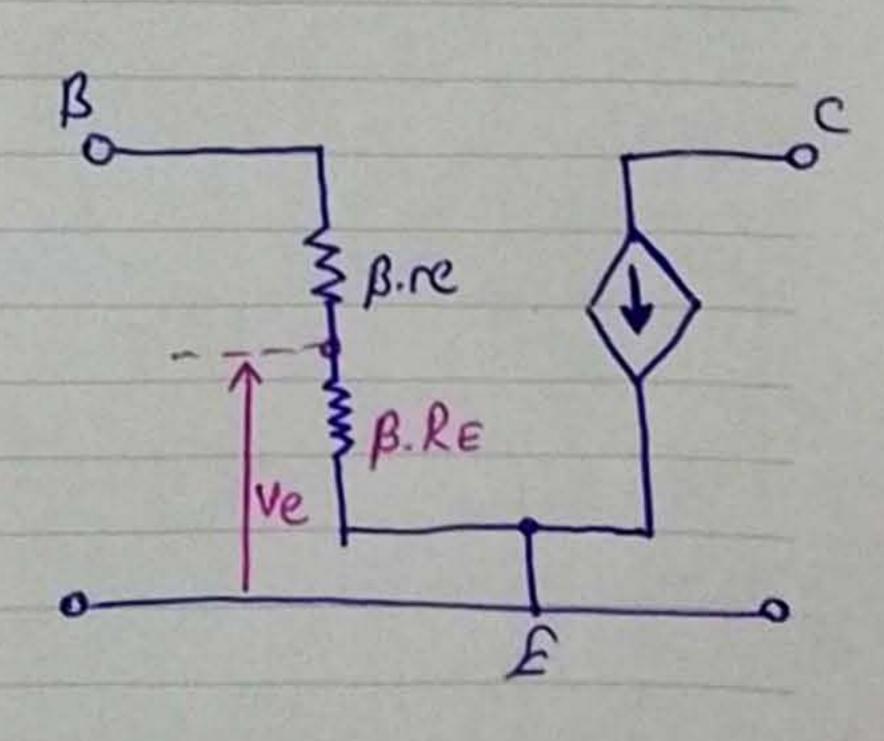




$$gm = \frac{I_{CQ}}{V_T}$$
  $CT. gm = \left(\frac{B.V_T}{I_{CQ}}\right)\left(\frac{I_{CQ}}{V_T}\right) = \beta$ 

# O'zel Ourum (RE varsa)



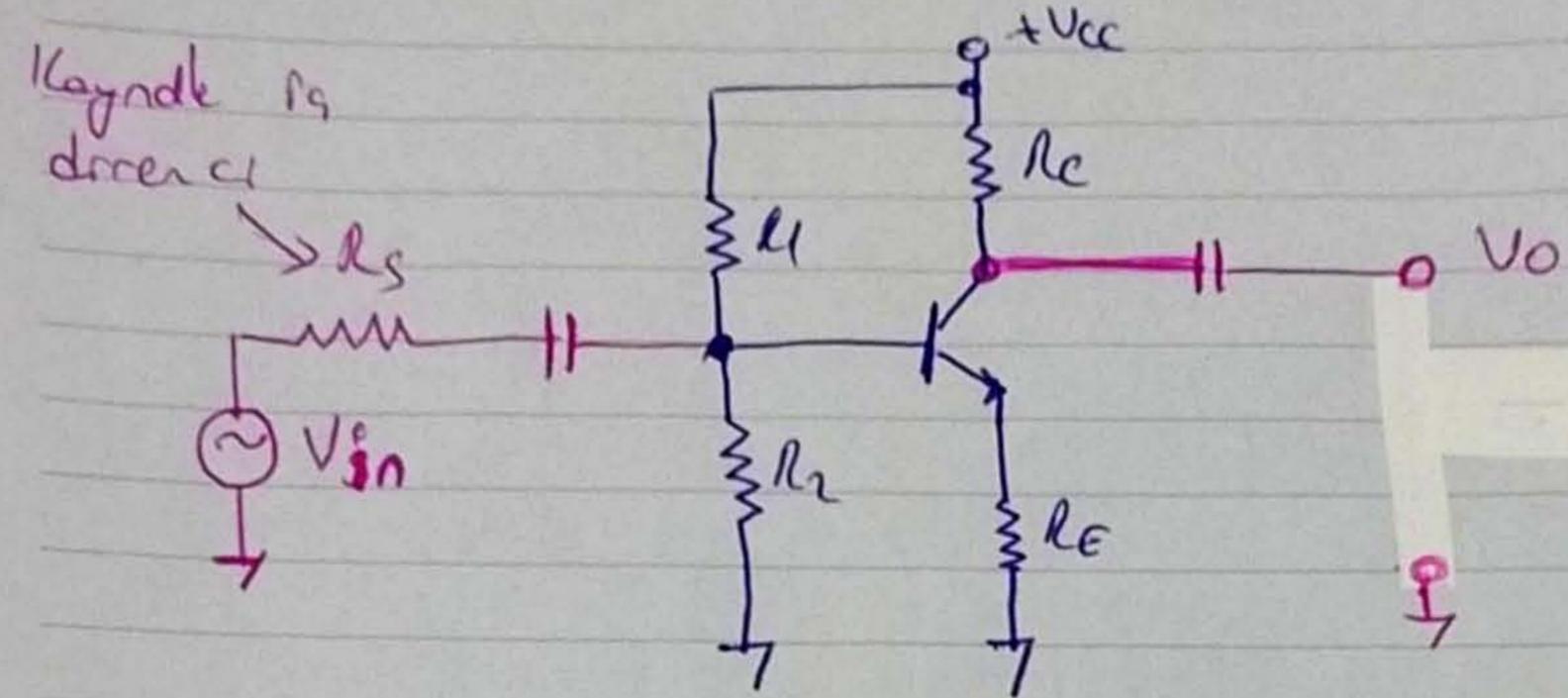


GERPLIM BÖLLICE POLAMALANDIR MA
RS DMENGLI AC Aroliz

Kayndle 19

direct

Tegende 19



VH = Vcc R2 vcc RH = Re. R2

NH = Vcc R2

NH = Re+R2

NH TB TE

The Is  $R_{H}$  -  $R_{E}$  -  $R_{E}$  = 0  $I_{B} = I_{G}$   $I_{E} = (\beta + i)I_{B}$ 

VH- IE ORH - VAE-IE-RE =0

 $\widehat{I}e = \frac{V_{Hh} - V_{BE}}{Re + (\frac{R_{Hh}}{B^{H}})} \Rightarrow \widehat{I}a = \frac{\widehat{I}e}{R^{H}}, \widehat{I}c = \beta.\widehat{I}B$ 

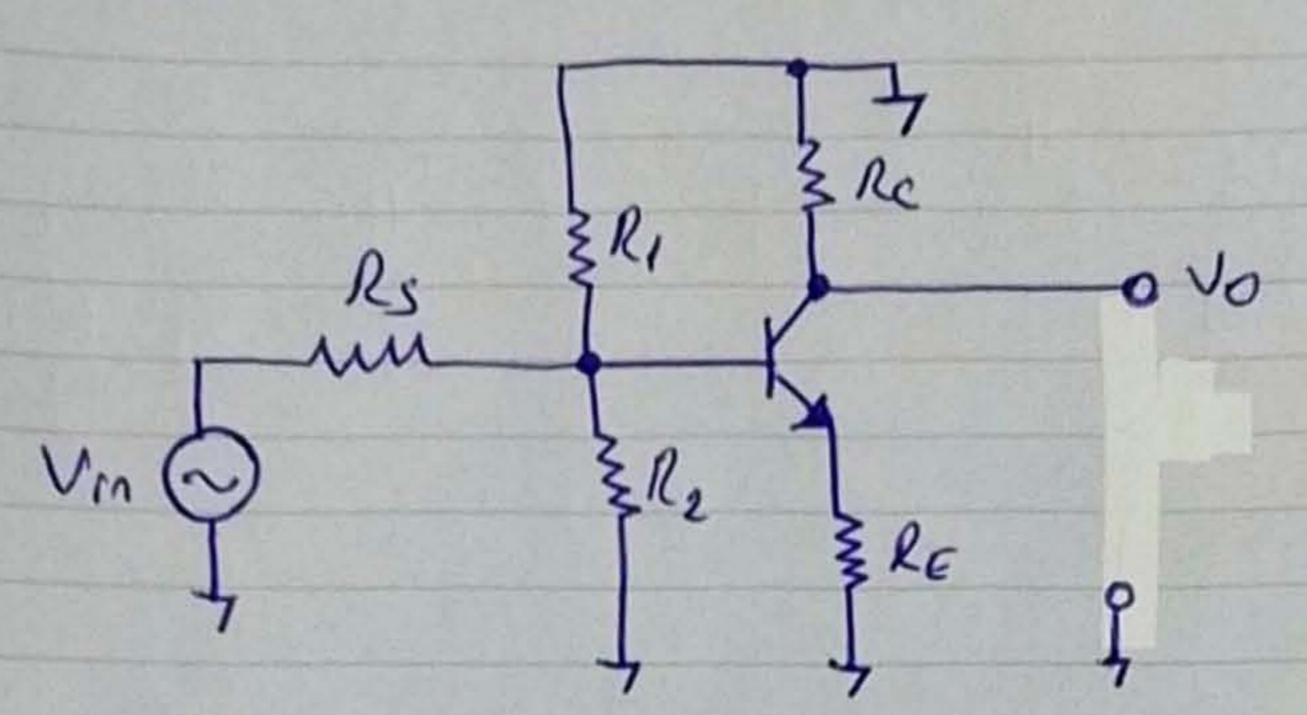
Vcc - Ic. Rc - VcE - IE. RE = 0 => VcE = Vcc - Ic. Re-Ie. Re

Vcc VcE > VoE rse

transister alunf bylgede

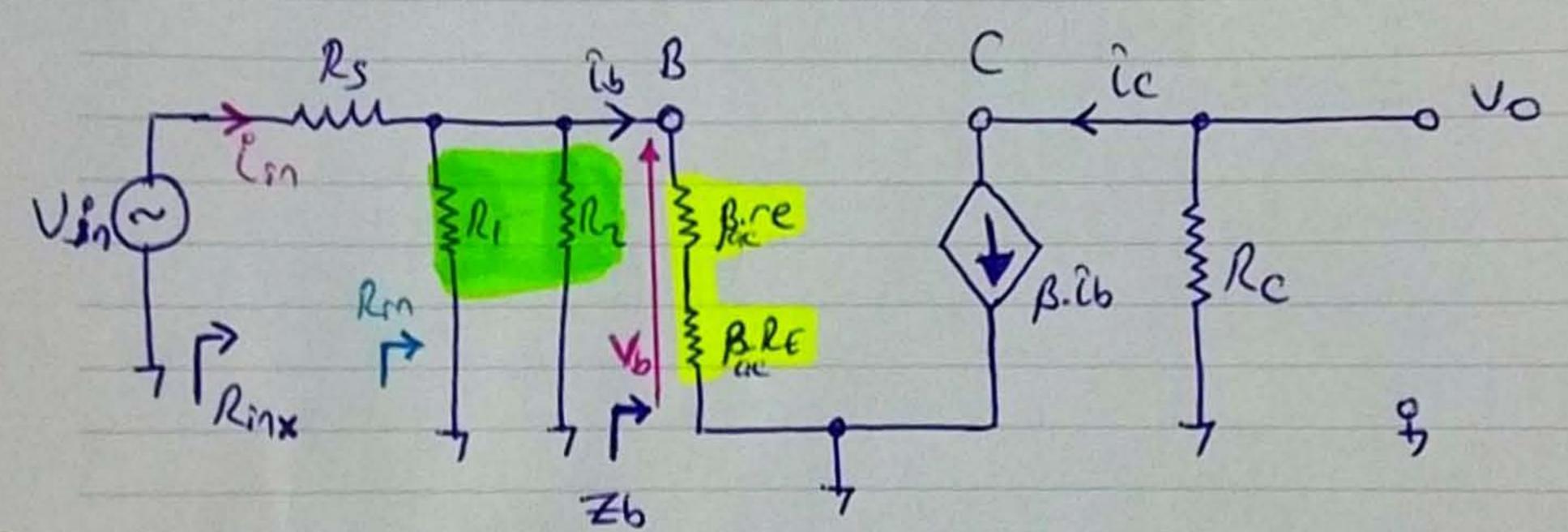
FABER-CASTELL

\* AC ordræde De kaynaklar kuse deure, kondonsaterler kuse deure yapılır. Bu durunda bosst ezdeger deure söyle olur:



AC £ s degre de re

\* re= 26mV IE



Zb=rinb = B(re+RE)

Ra = R1//R2 = R1.R2
R1+R2

Rm = Ra // Zb

Rm = Ra Zb

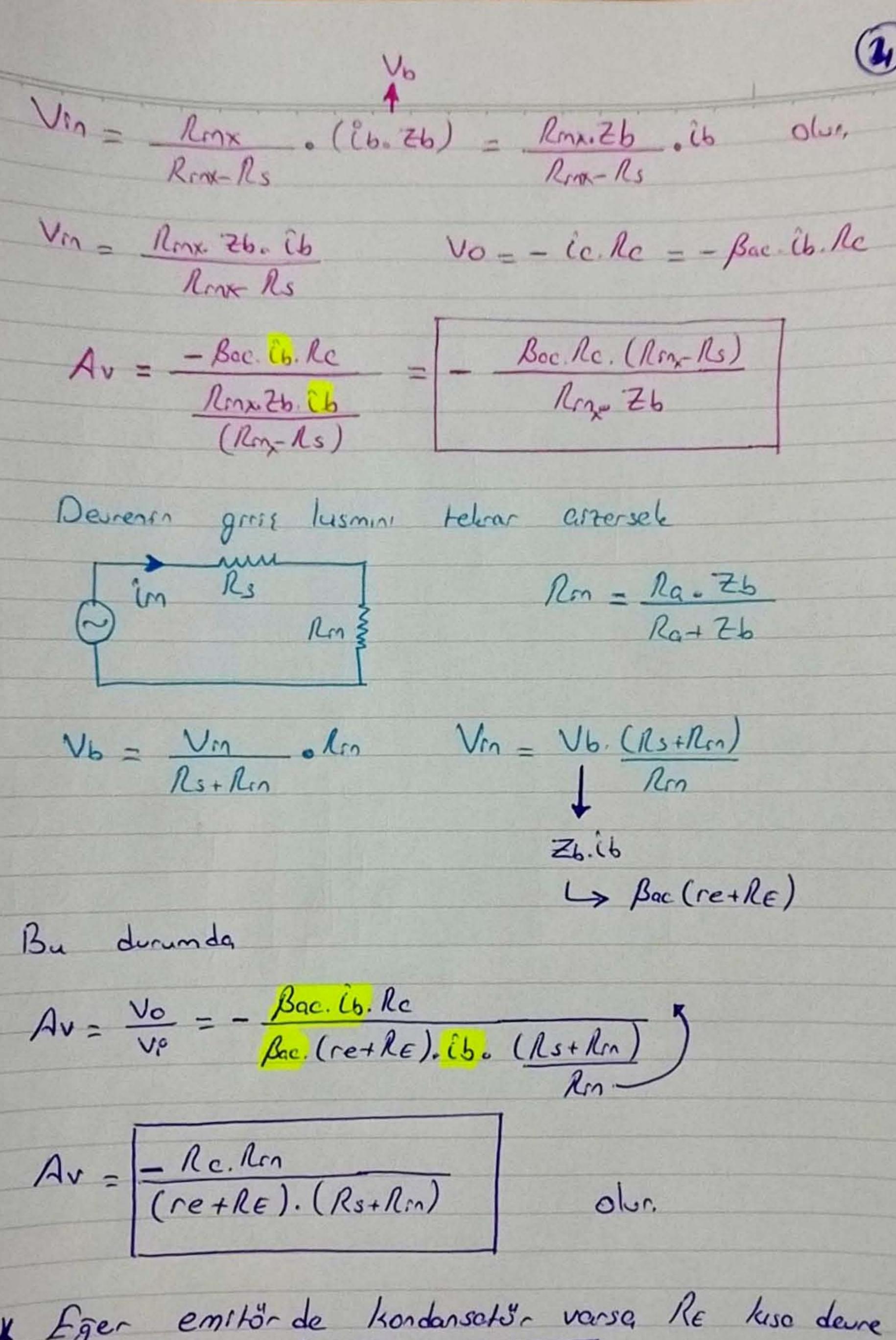
Ra + Zb

Rm= Rs + Rall Zb = Rs + Ra. Zb in = Vm
Rmx

 $Vb = \hat{l}b.Zb = Vm - \hat{l}m.Rs$   $Vb = Vm - \frac{Vm}{Rmx} \cdot Rs = \left(\frac{1-Rs}{Rmx}\right)Vm$ 

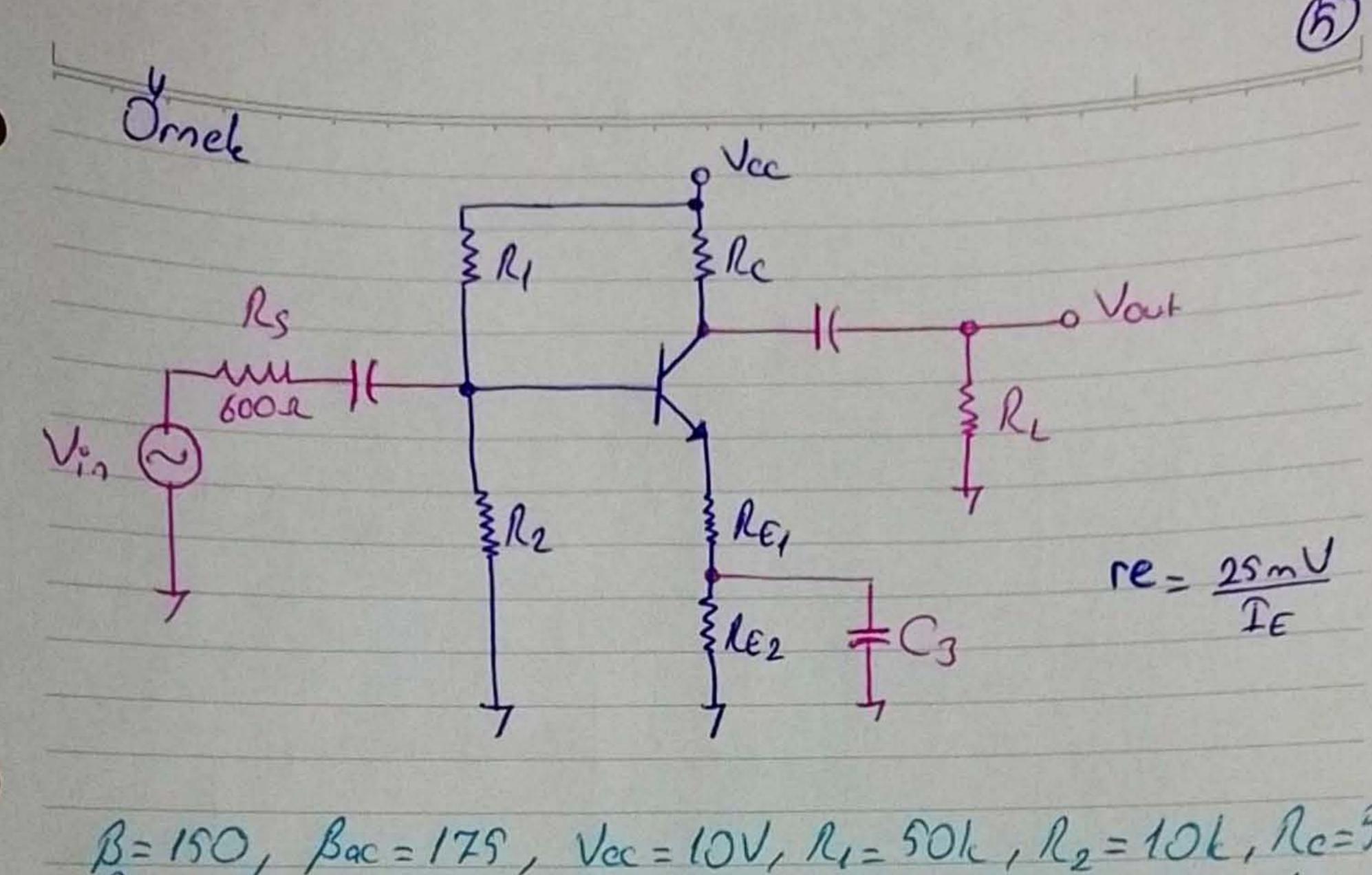
VB = (RMX - RS) over = Vb. RMX
RMX - Romx ober

1 years of



\* Eger emitör de kondansatör varsa RE kisa deure olacazi rain Au = - Rc. Rin olur.

re. (Rs+Rin)



B=150, Bac=175, Vec=10V, R\_1=50k, R\_2=10k, Re=5k Re1=Re2=500se, R\_2=50k, Vrn=10mV see devrenm gentron kazancini ve toplan sikis gentromms bulinit.

VB = Vcc . R2 = 1,6667V

B(REI+REN) >10R2 Yallozek Anolog

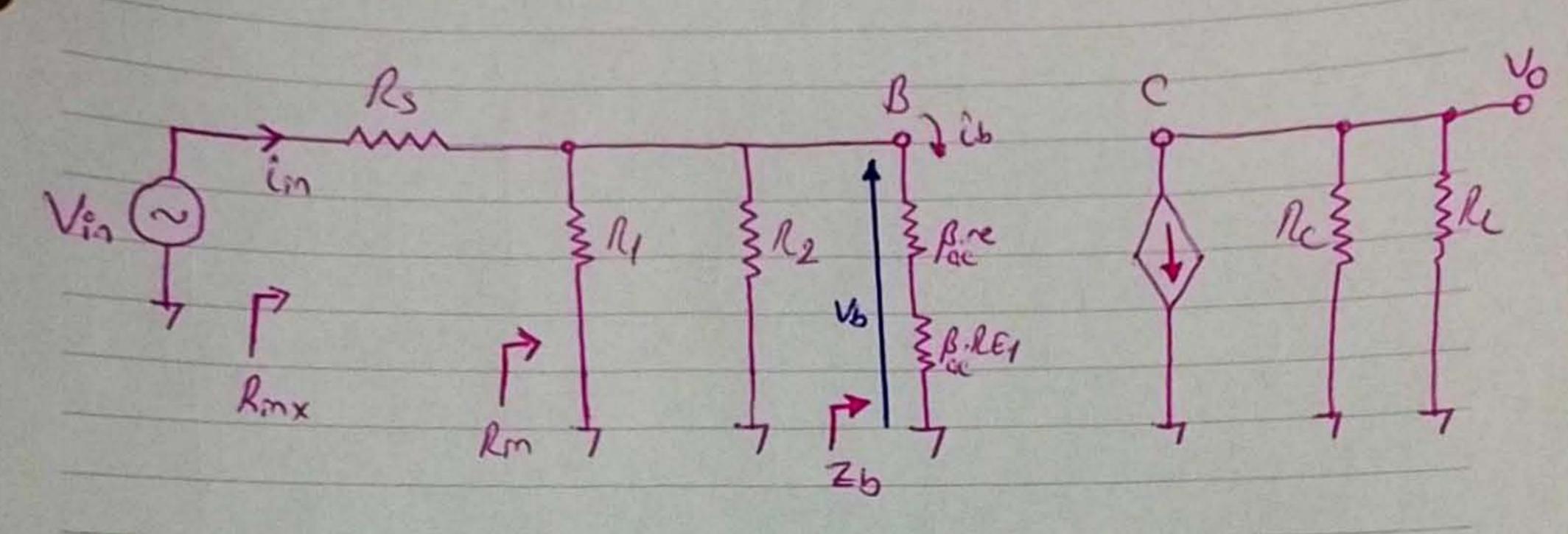
VE - VB- VBE = 0,96667V

IE = VE \_ O,9667 mA IC = IE . B = 0,96026 mA

Rei+Rez (BH)

Vcc - Ic. Rc - VcE - IE. (REI+RE2) = 0 => VcE = 4,232V //
transistor about 68/gde

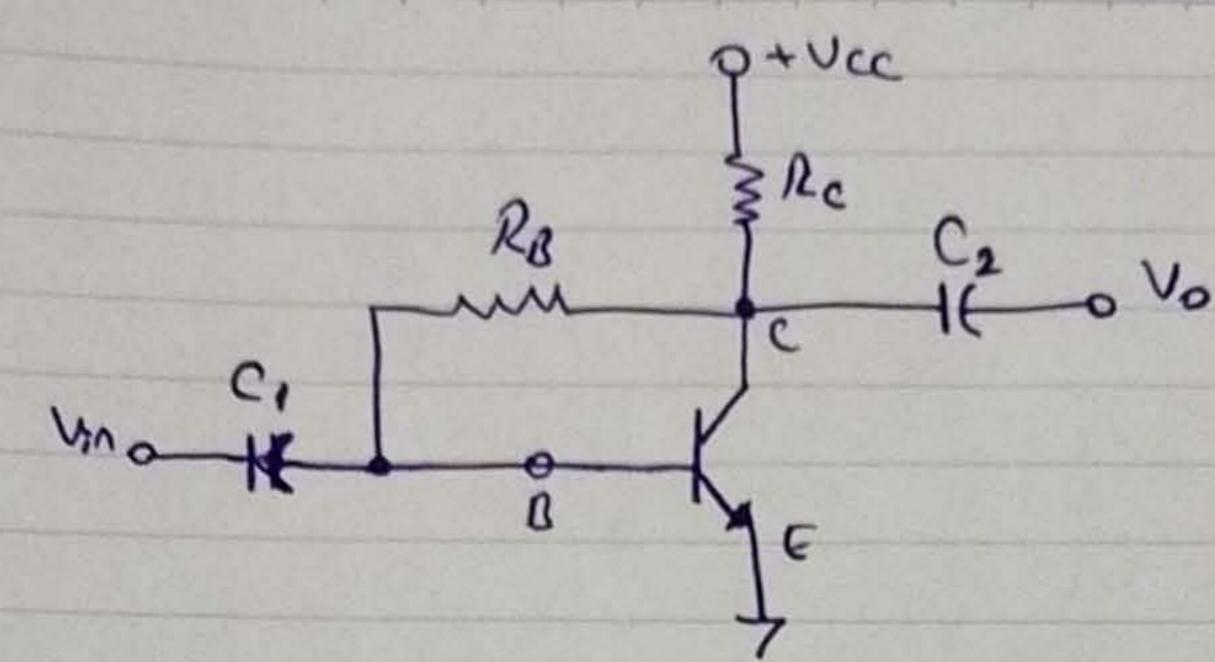
re = 25mV = 25,862 => Bac. RE = 4,3259 L.R



$$Z_b = \beta_{ac} (re + RE_1) = 92,026 k$$

the state of the s





Viriler sadelesser. Pay ve paydays Bire de sampolins