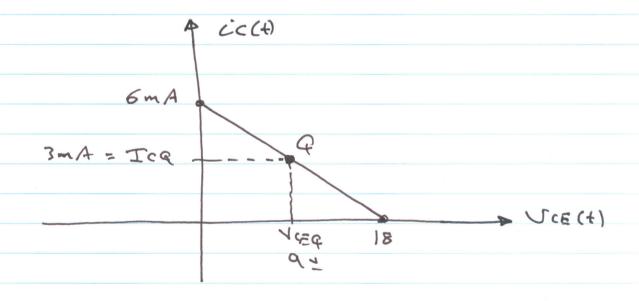
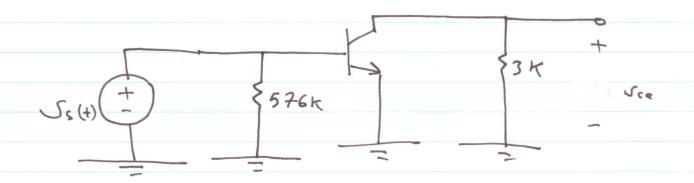


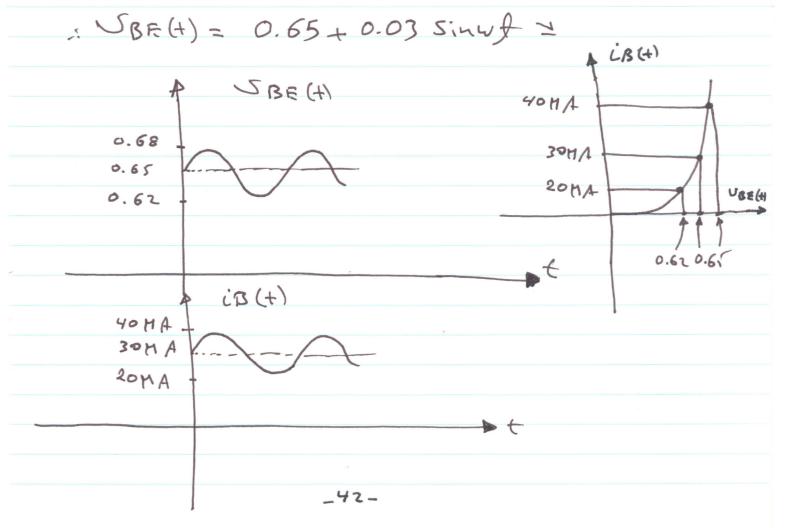
De Analysis



ac equivalent CKT



Nbe = Us(+) = 0.03 sin w + 1



When VBE(+) = 0.65 y; LB(+) = 30 MA

VBE(+) = 0.684 , CB(+) = 40 M A

VBE(+) = 0.624 ; iB(+) = 20 HA

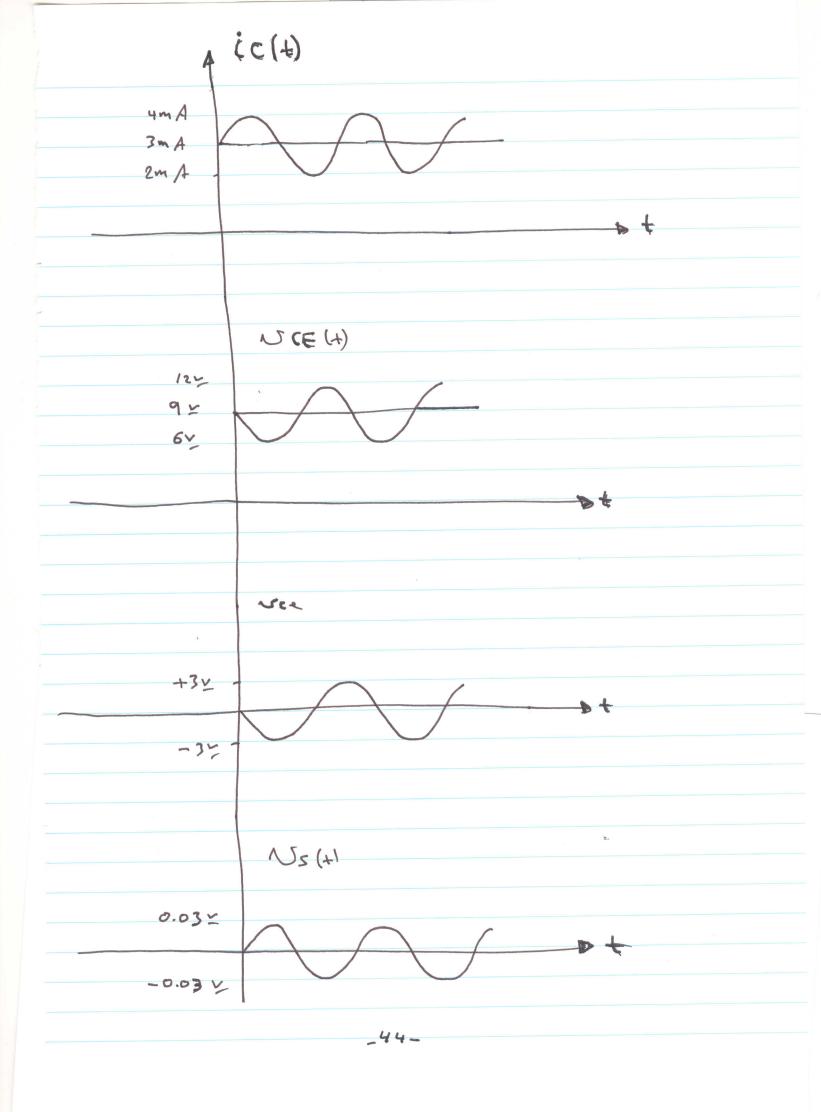
using ic(+)= BiB(+)

and V(E(+)= Vcc- Re ic(+)

When iB(+) = 30MA; (iC(+) = 3 mA V(E(+) = 9 1

When iB(+) = 404A; ic(+) = 4mA NE(+) = 61

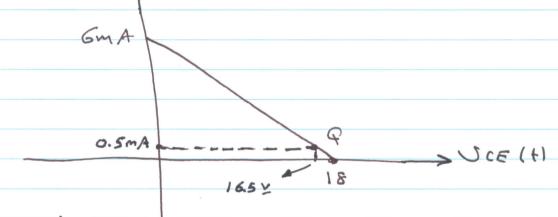
When iB(+) = 20MA; ic(+) = 2mA V(=(+) = 12V



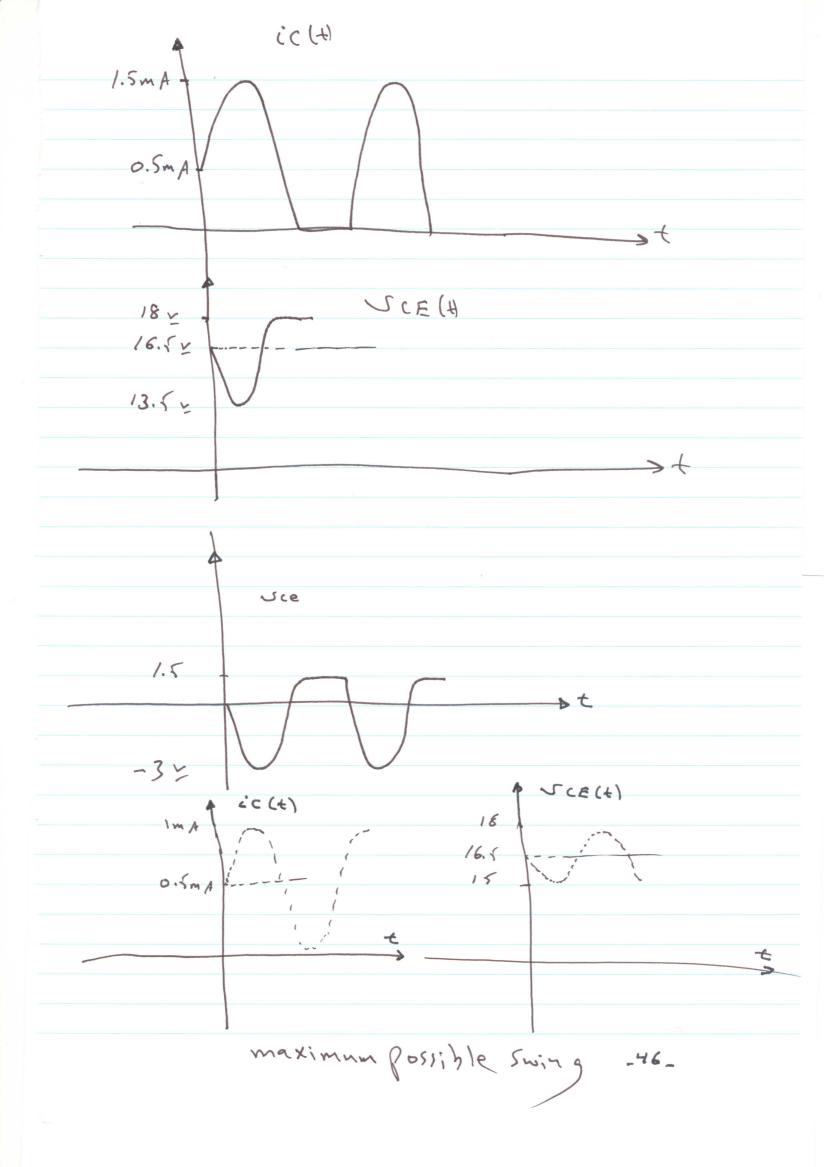
let RB = 3.47 M2

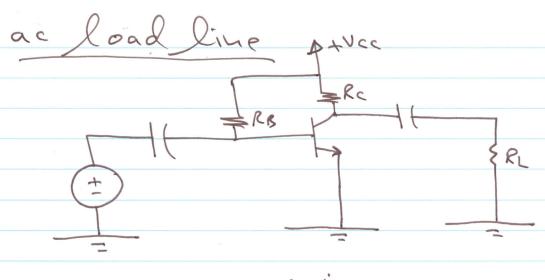
A ic(+)

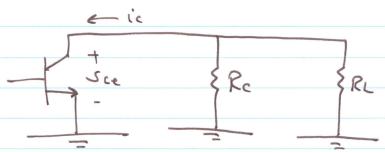
Ic = 0.5 m A











Uce = - (Rc//RL) ic

Sce = - Rac ic

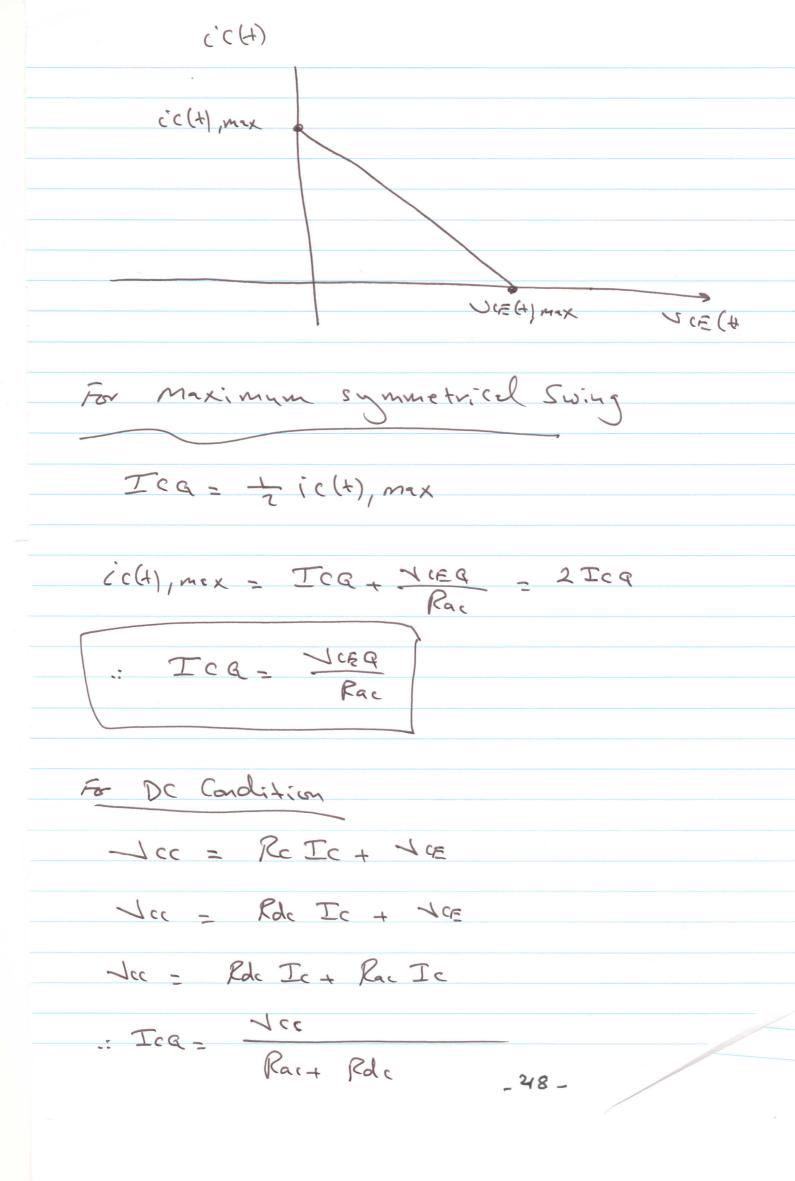
VCE(+)- VCEQ = - Rac (CC(+)- ICQ)

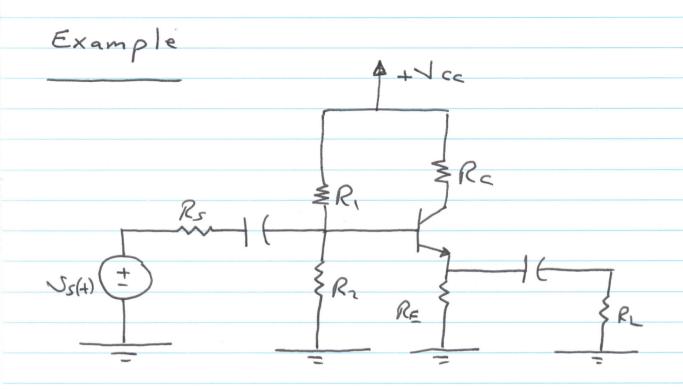
To find cc(+), max, set S(E(+)= NCE, sat 20

: ic(+), mex = Icq + TCEq
Rac

To find ScE(+), max, set ic(+)=0

.: SCE(+), Max = NCEQ+ Rac ICQ





For maximum symmetrical Swing

TCG = Ncc

Rac+ Rdc

Rdc = Rc + RE | RL

VCEQ = Rac Icq