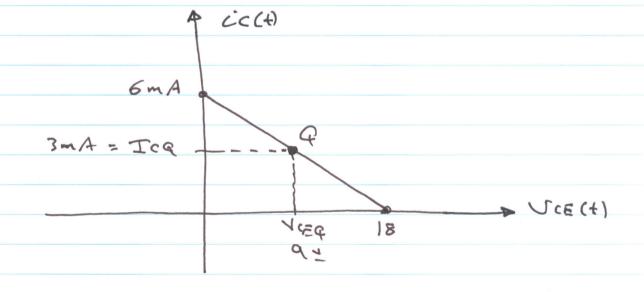
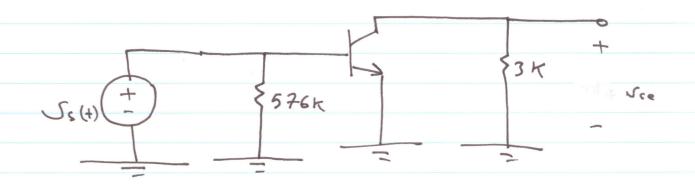
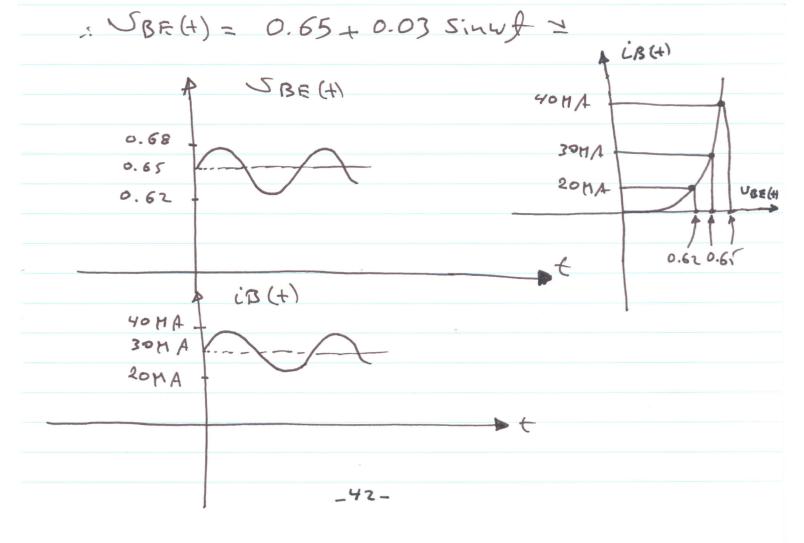


Dc Analysis

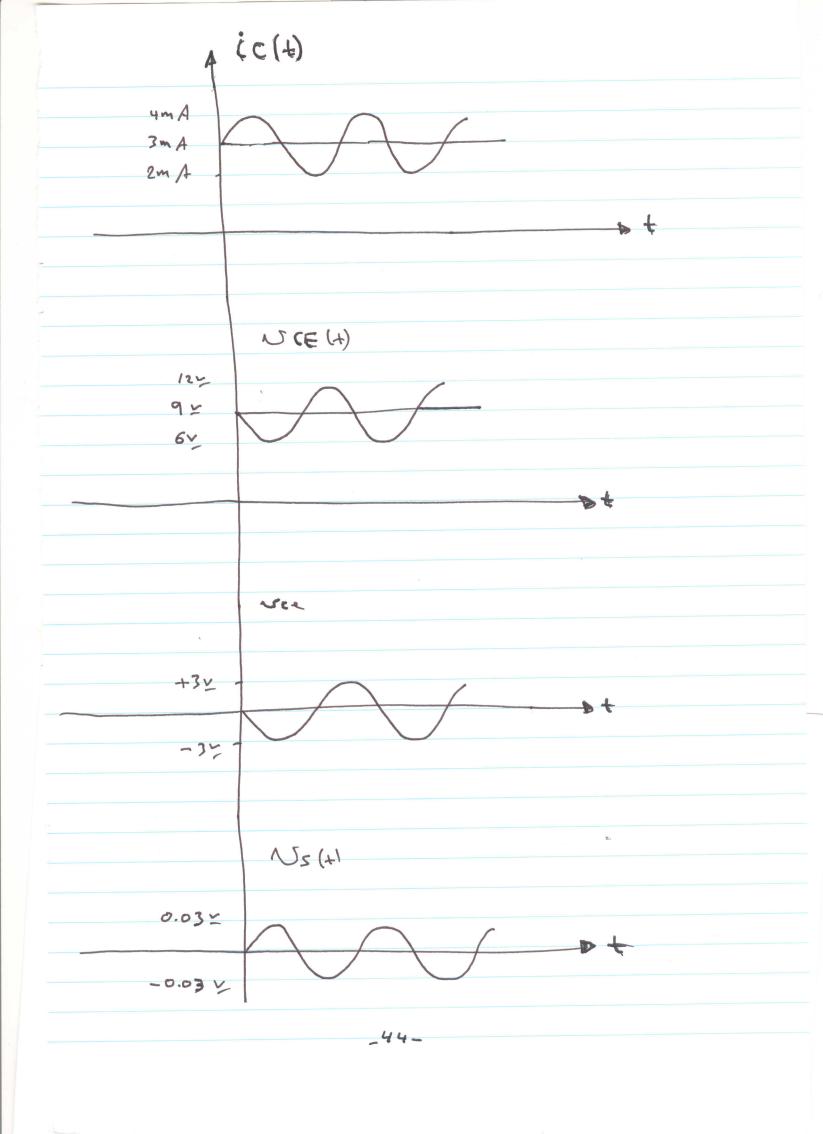


## ac equivalent CKT

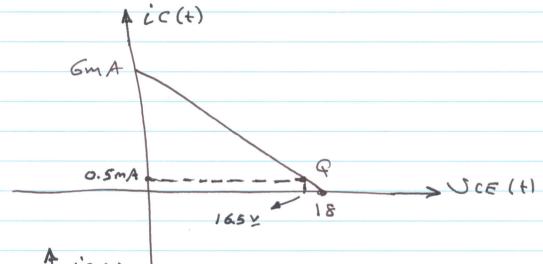


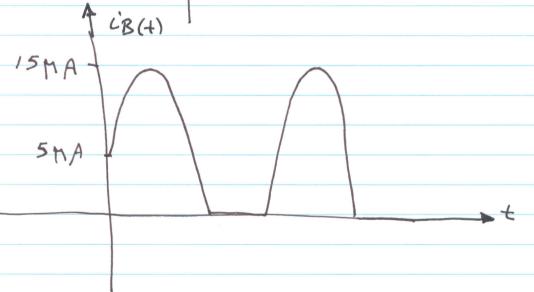


When VBE(+) = 0.65 x; LB(+) = 30 HA VBE(+) = 0.684 , CB(+) = 40 M A VBE(+) = 0.624; iB(+) = 20 HA using cc(+)= BiB(+) and VIE(+) = VCC - Rc ic(+) When iB(+) = 304 A; ic(+) = 3 m A V(E(+) = 9 1 When iB(+) = 404A; ic(+) = 4mA NCE(+) = 64 When iB(+) = 20 MA; ic(+) = 2mA V(E(+) = 12 V

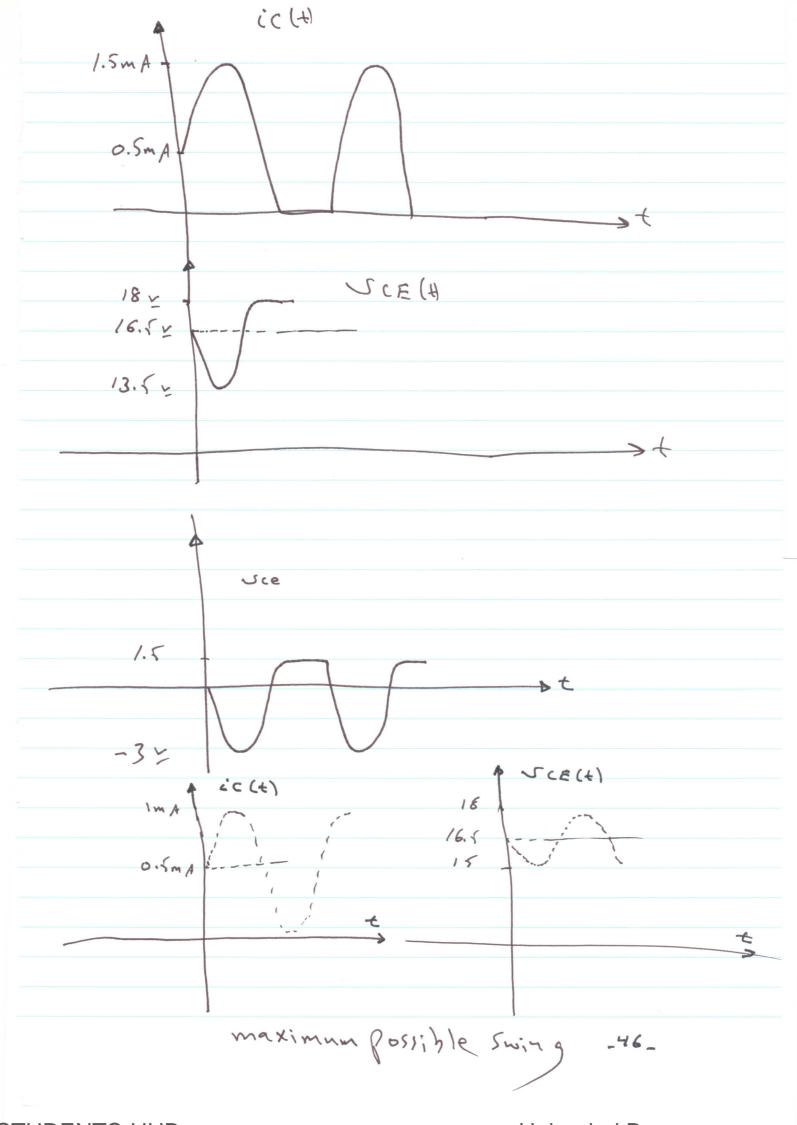


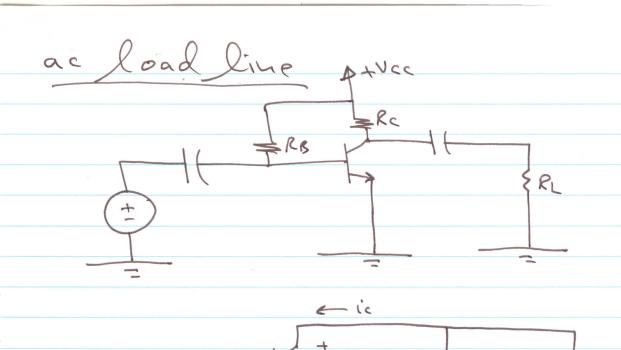
let RB = 3.47 ms





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See = - (Re//RL) ic

Sce = - Rac ic

VCE(+)- VCEQ = - Rac (ic(+)\_ ICQ)

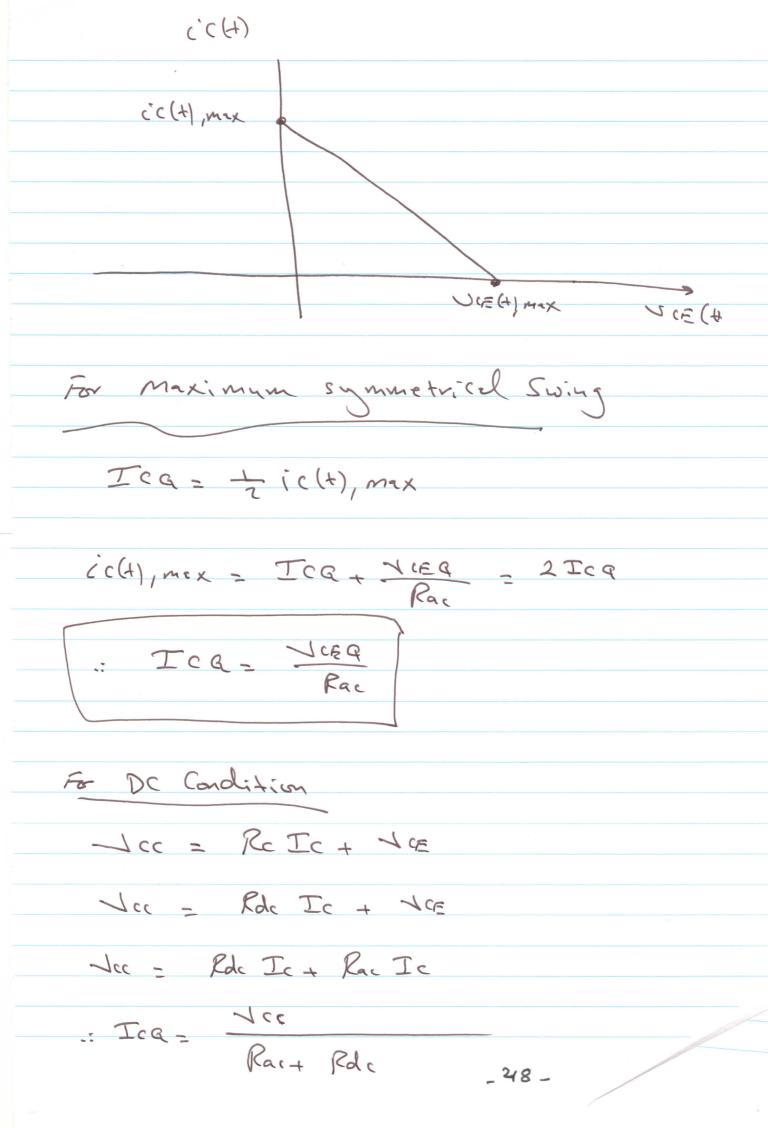
To find cc(+), max, set J(E(+)= NCE, sat 20

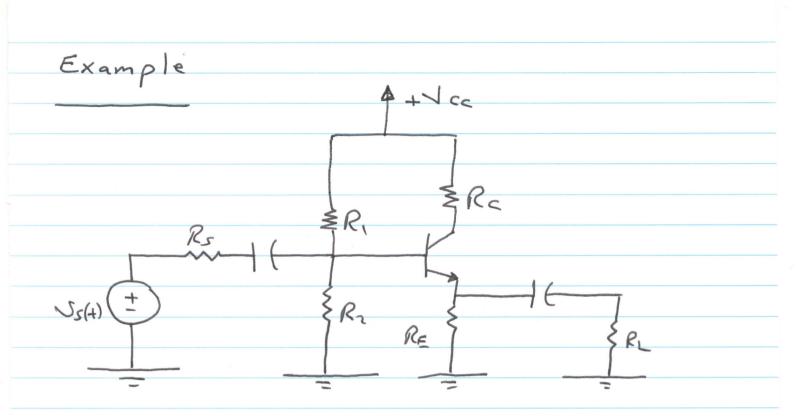
: ic(+), mex = Icq + Tcq + Rac

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

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

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For maximum symmetrical swing  $TCG = \frac{\sqrt{cc}}{R}$ 

Rdc = Rc+RE Pac = Rc+ RE | RL

VCEQ - Rac Icq