$I_C \downarrow$

a) find V_{BEQ}, I_{CQ}

$+$
V_{CE}
$-$

$+$
V_{BE}
$-$

b.) A_v ?

c) Let small signal of 5mv sin wave superimposed on V_{BEQ}

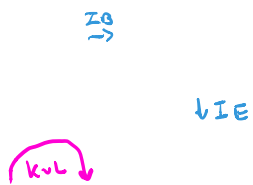d) Derive Q point to edge of saturation

$\rightarrow$ milli $\rightarrow$ kilo

$\beta \rightarrow$ larger

$\beta + 1 \approx \beta$

$\alpha \approx 1$

① <u>Do DC Analysis:</u>

I_B →

↓ I_E

KVL ↓

→ Active mode, > 0.3

② Small signal