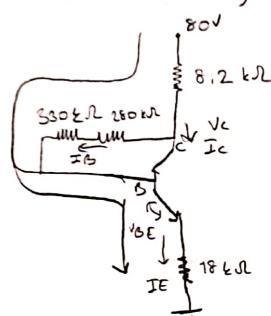
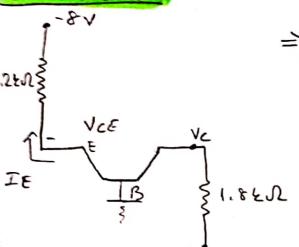


2 a. Analysis

for Dic analysis all capacitors will act as open circuit so the circuit becomes;



30- Vc = Ic x 8 x 103 [Voltage Difference between Vcc - Vc]



Ver = IcR + Ves

Ver = Vec - I. Re Vic = 10V

kg= 4,06361

VCB = VC - VA VB = OV as bee so

VLD=10-3.2238 x10-3 x 1.8x13

(1-)
$$I_{c} = \beta I_{0} = 100 \times 20 \times 10^{-6}$$

 $I_{c} = 2 \text{ mA}$
 $I_{c} = 2 \text{ mA}$
 $I_{c} = 100 \times 20 \times 10^{-6}$
 $I_{c} = 2 \text{ mA}$
 $I_{c} = 2 \text{ mA}$
 $I_{c} = 2 \text{ mA}$
 $I_{c} = 100 \times 20 \times 10^{-6}$

VE = 100+1 1200 X 1,2 KSC DE= 2.424 V

$$f \rightarrow V_B = \frac{V_{cc} \times 8.2}{R_1 + 8.2}$$

$$R_1 = \frac{16 \times 8.2}{R_1 + 8.2}$$

$$R_1 = \frac{16 \times 8.2}{R_1 + 8.2}$$

R, = 33.7974 KR

We get:

form eq (Jand D) -16+3.6 (121 ID)+220 ID+1.2(121 ID) =0 850.8 ID=16 ID=18.8 MA)

(-)
$$V_{C} = 16-3.6 \left(2.251 + 0.0188 \right) = 2.808 V$$