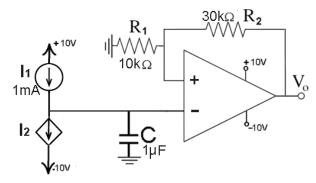
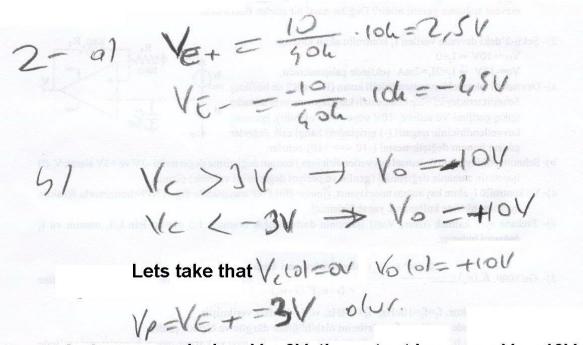
The controlled current source in the figure given as

$$Vo=+10V \rightarrow I_2=0$$

 $Vo=-10V \rightarrow I_2=2xI_1=2mA$



- a) Find the hysteresis limits.
- b) Draw Vo(t) for the hysteresis limit values of -3V and +3V
- c) Design I2
- d) For the same frequency, for the pulse-space ratio of 1/3, find I1/I2 and I1.



C charges and when Vc=3V, the output becomes Vo=-10V Then, C discharges and When Vc=-3V, the output becomes Vo=+10V These cases repeat continously.

$$\Delta V_C = 1 - (-1V) = 6V$$

The current charging C; $T_1 - T_2 = \ln A - 0 = \ln A$

(When C charges, Vo=10V and I2=0)

The current discharging C; $J_1 - J_2 = |MA - 2M^{\frac{1}{2}} - |MA|$ (When C discharges, Vo=-10V and I2=2mA)

