1. Therenin Circuit

$$=\frac{18}{9}=2$$

$$V_{A} - V_{B} = 4 - 1$$

$$= 3V$$

Norton Circuit.

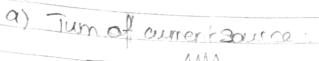
$$V_c = \frac{1}{3+1} \cdot V_g = 2.5$$

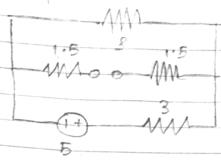
$$I_{P_4} = 2.5 = 5 A$$

$$-R_{11} = 3 = 9.52$$
 $(\frac{5}{3}) = 5$

Therenin Grant: VINO Morton Circuit







$$I = 5 = 5 A$$
. 3+3 6.

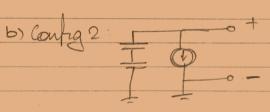
b) 1

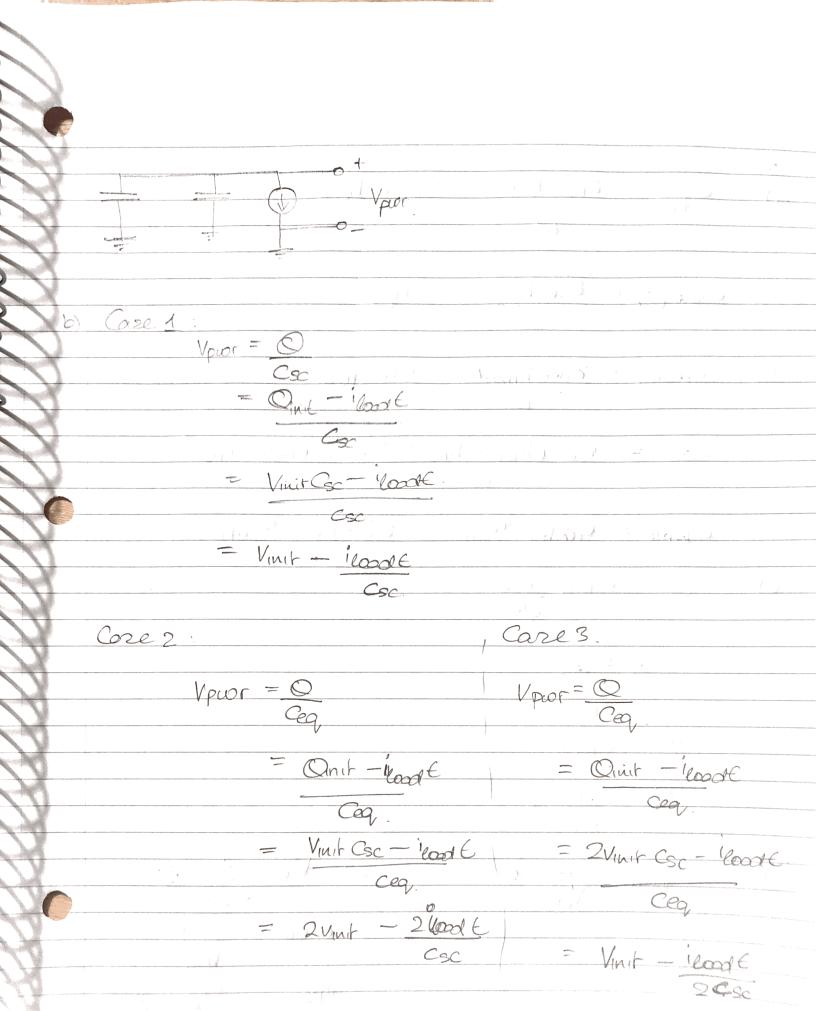
By superposition,
$$-5+1=-1A$$

Phose 1 Va, 1 = Vource -0 = Vource Vc31 = 0-0=0 Oc, = Vai, C, = CVsource. Oc211 = Vc21 C2 = 0

$$V_{OUE} = \int \frac{I_S}{C_2} dE$$

$$= \frac{\text{Ist}}{\text{Co.}}$$





9) Ct = EHOO h.W = 81. E. hooc Comphy = Earh.w = Ehroc. b) Cooper = EHEOPHEOW = 818/1400. Cair = Ear (htot - hto) W = E (htot - hteo) CHANK = GOSTER + Cair = E(htor + 80hH20) C) To = Chuk dVo Ic = Is 1 Vc = Is t. C d) Ctank = Is. E. httpo= Ctank-hot. E. httpo = Clark - htpr &

10. I worked alone for this resubmission using the.
Solutions that were rebreased over the weekend