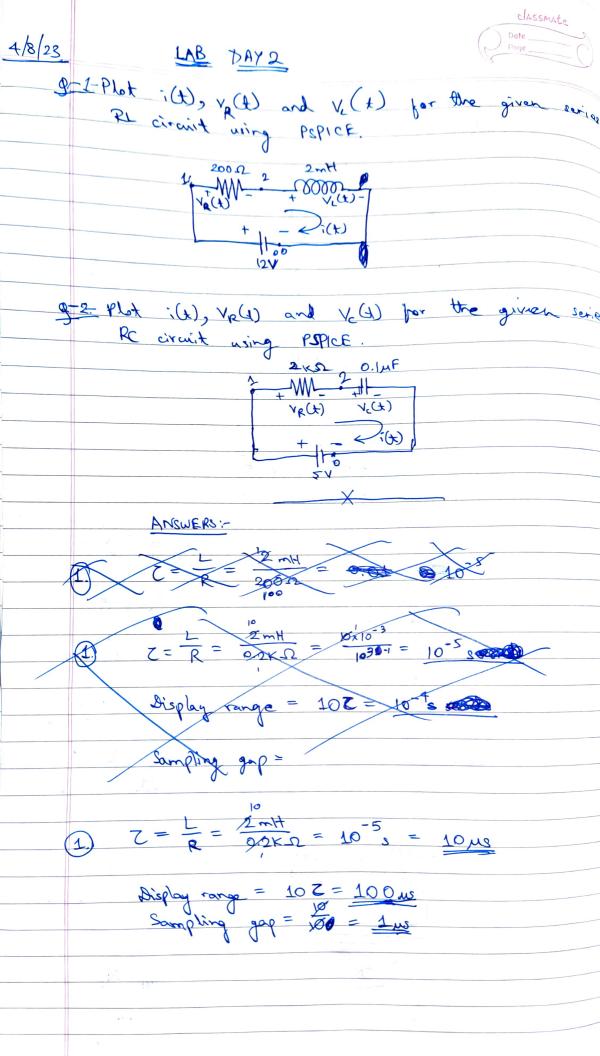
SYNTAX Lon samplin code: (Transient analyse) series RL circuit (first line does not interpret) V 1 0 DC 1 R 12 2K L 2 0 50m tran 2.54 2504 UIC ·probe RXC



CODE :-
System LR circuit
V° 1 0 €DC 12
R 1 2 200
L 2 0 2m
tran 1u 100u UIC
.probe
end
T = 0, $C = 0$ , $0.1 = 0.0$
$C = R_{x}C = 2 \times 0.1 = 0.2 \text{ ms}$
Display range = $10Z = \frac{2}{2}$ = $\frac{2}{10}$
Sampling gap = 10 = 0.21 = 0.02 mg
system RC circuit
393 Con PC 5

V 1 0 DC 5

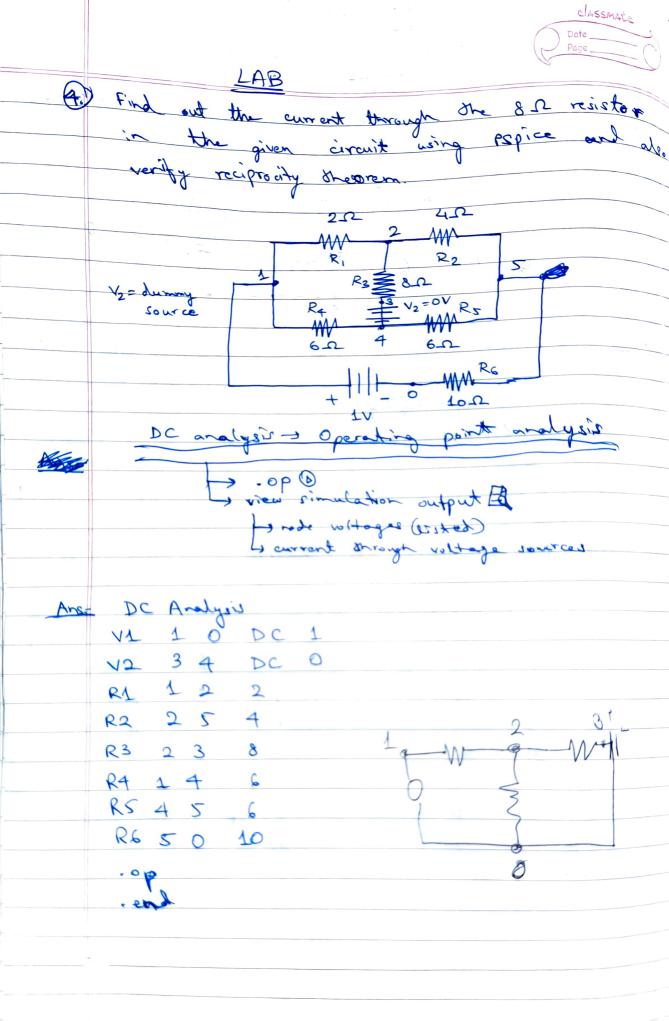
R 1 2 2K

C 2 0 0.lu

o.o2m

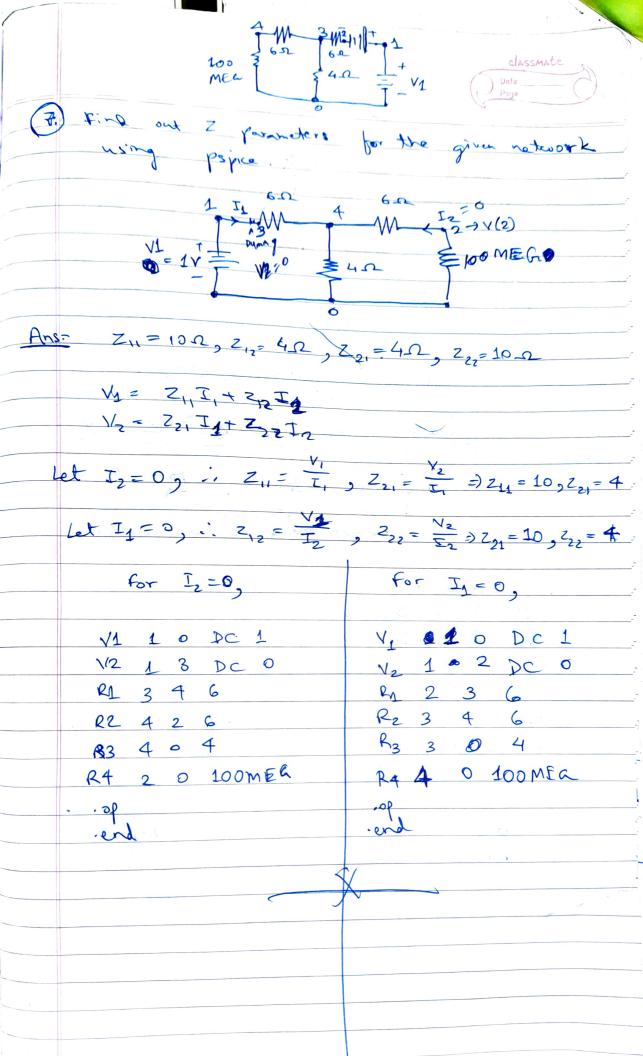
tran 2m UIC

38



Clasimati Find out Vy and RTA for the given arount between terminals A and B, using Pspice (5) 452 2.12 W 7 W 4 102 +11-0-M  $\forall V_{R} = V(2) - V(3)$ = 0.9048 0.8571 = 0.0477 V 1 V (connected 1 DC RI 122 R2 2 4 2,266 x R3 13 6 6 R4 3 4 R5 4 0 10 7 3 DC1 R1 0 1 2 134 RZ 0 2 6 R3 2 3 6 R4 0.0477 1.079×10 1.079 R\$ 3 0 10 Is = 1.079×10-2 A ,00

Classmate 1/9/23 using psp ica LAB Circuit, when wohen of the load Rollowing increases by 30%. Ans-\$20st \$ RL= 20st + 15V (some direction of current) R= 201, I= 2.5A R\_+AR= 26.02, I1-2A . V= IxAR  $= 2.5 \times 6 = 15 \text{ V}$ CODE:-2rd case (30% output 1 st case (seeming source) Compensation V1 10 DC 75 V2 0 3 DC 3 R1 125 R2 20 20 R3 2 3 20 Rg 2 3 26 3rd case (voltage source added) V2 3 0 DC -15



14/9/23 LAB 3 COMPENSATION THEOREM (3) Verify Compensation Theorem using PSpice for the following circuit when the value of load Presistance decreased by 20%. 1000  $R_1 = R_3 = 1000$   $R_1 = R_3 = 1000$   $R_2 = R_3 = 1000$   $R_1 = R_3 = 1000$   $R_2 = R_3 = 1000$   $R_3 = R_3 = 1000$   $R_4 = R_3 = 1000$   $R_5 = R_5 = 1000$   $R_6 = R_5 = 1000$   $R_{L} = 25\Omega$   $R_{L} = 25\Omega - \frac{20}{100} \times \frac{1}{100} \Omega = 20\Omega$ Ans- $I(R) = 8.046 \times 0.8696 A$   $I_{1}(R_{1}-\Delta R) = 1 A$ : Voltage source neded = ARX I = 0.8696 x 5 🙈 V = 4.3480 V = 4.35 V (approx) Voltage at 1/2 was found to be 0.869 A again confensation Theorem verified During source with voltage source added During Source V1 1 0 DC 100 V1 1 0 DC 100 V1 1 0 DC 100 Y2 3 0 DC 4.35 12 3 0 DC 0 0.8696 V2 30 ℃ 0 x 5 R1 1 2 40 | R1 1 2 40 R1 102 40 4.3480 R2 2 0 20 R2 20 20 R2 2 0 20 kg 23 20 23 23 20 R3 23 25 end, end .09, end.