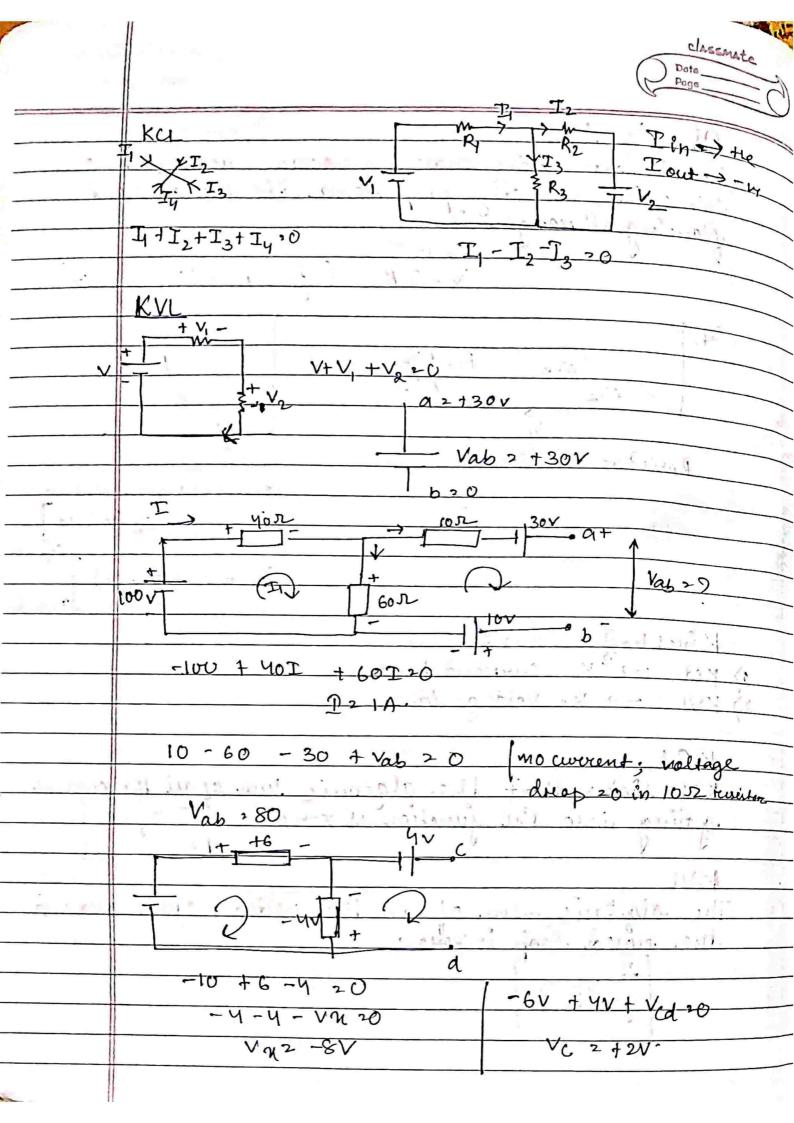
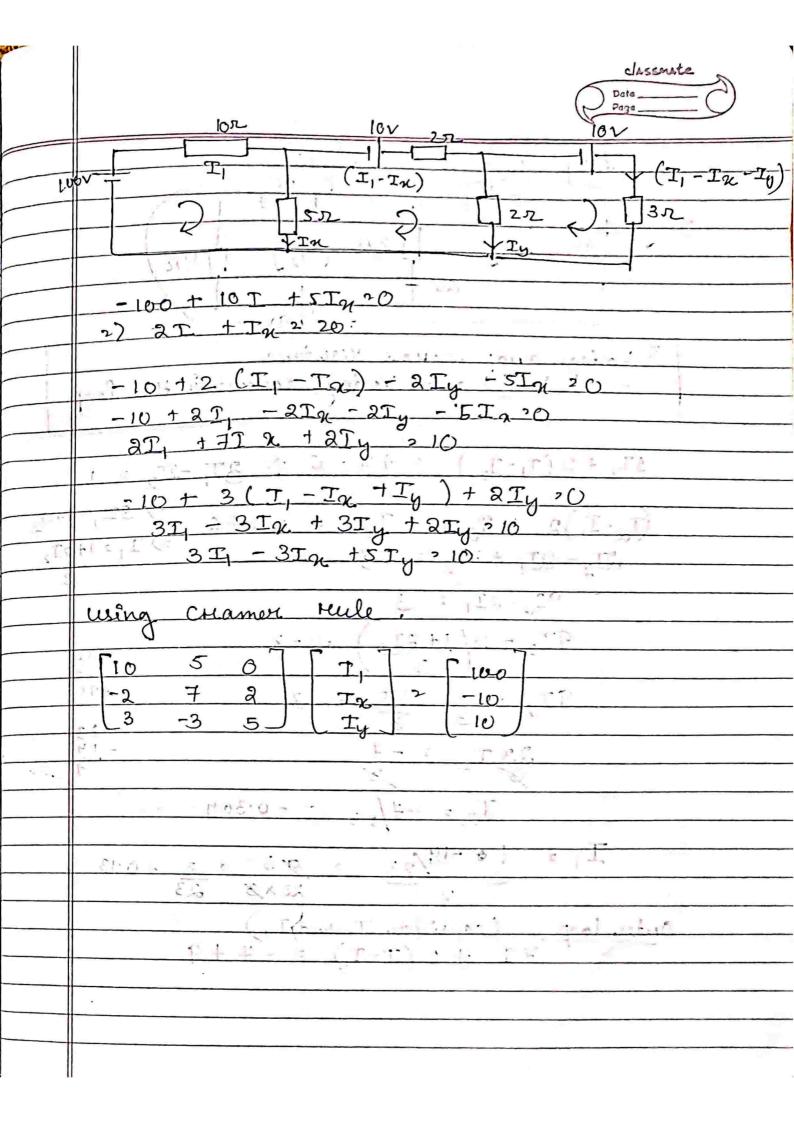
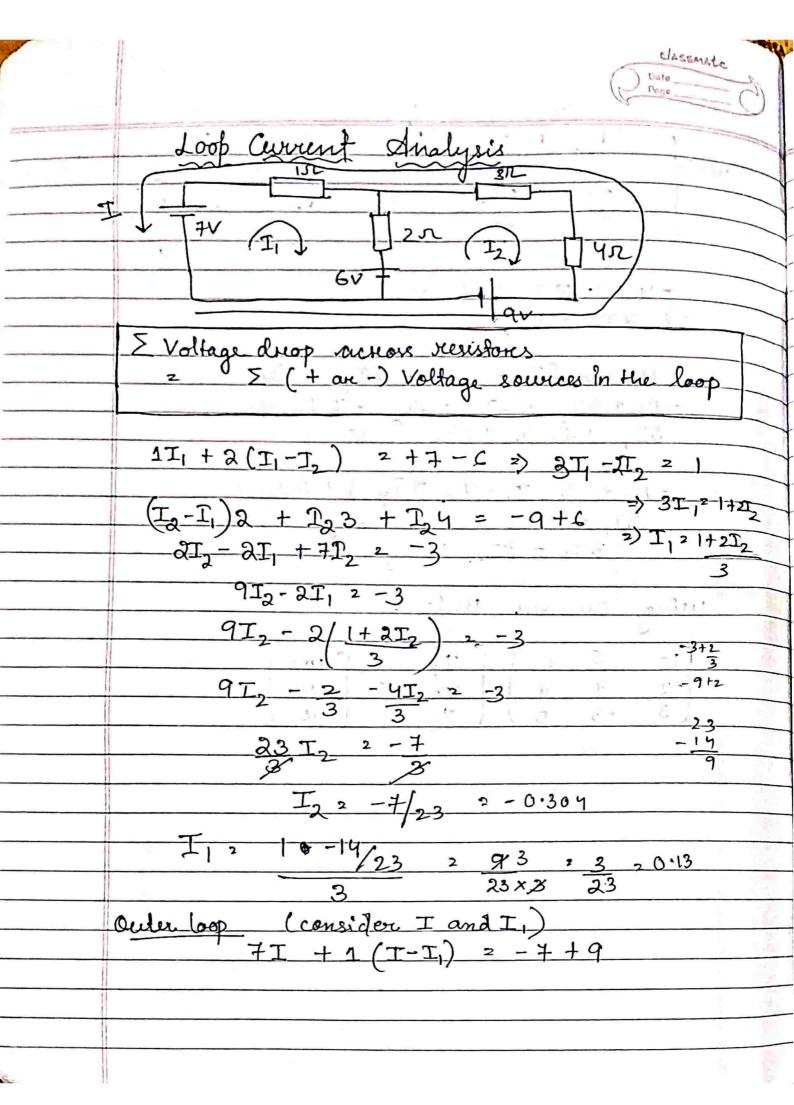
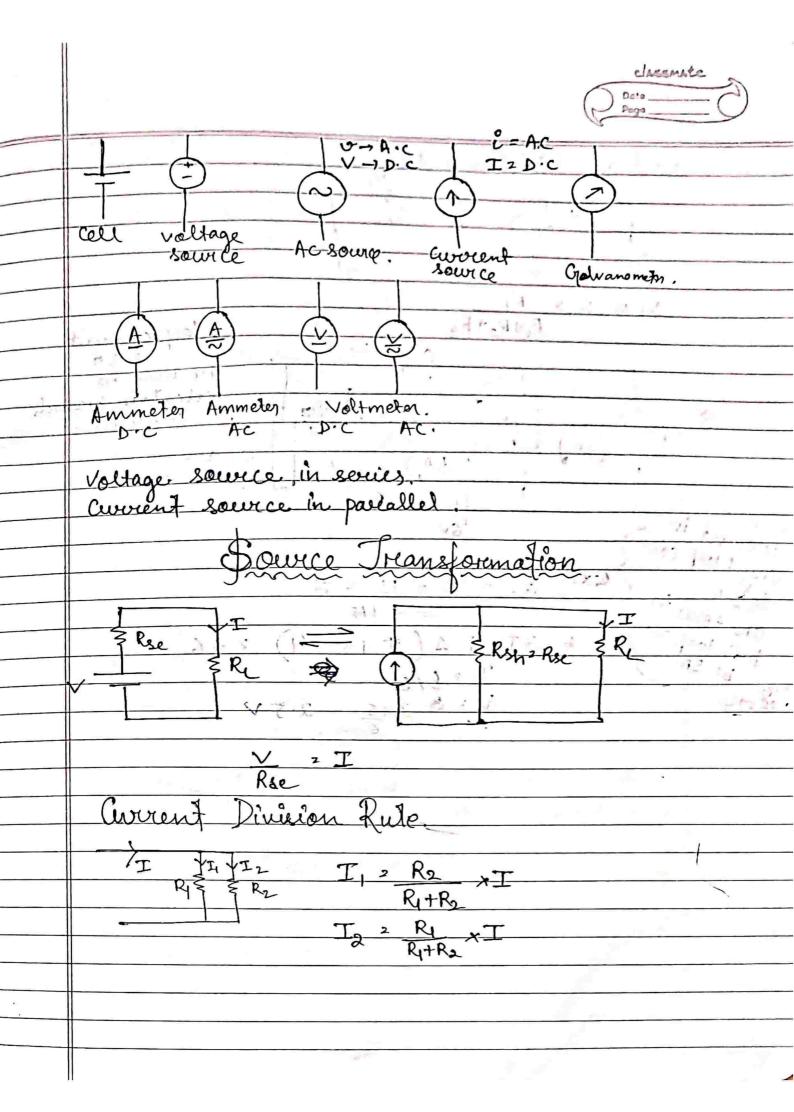


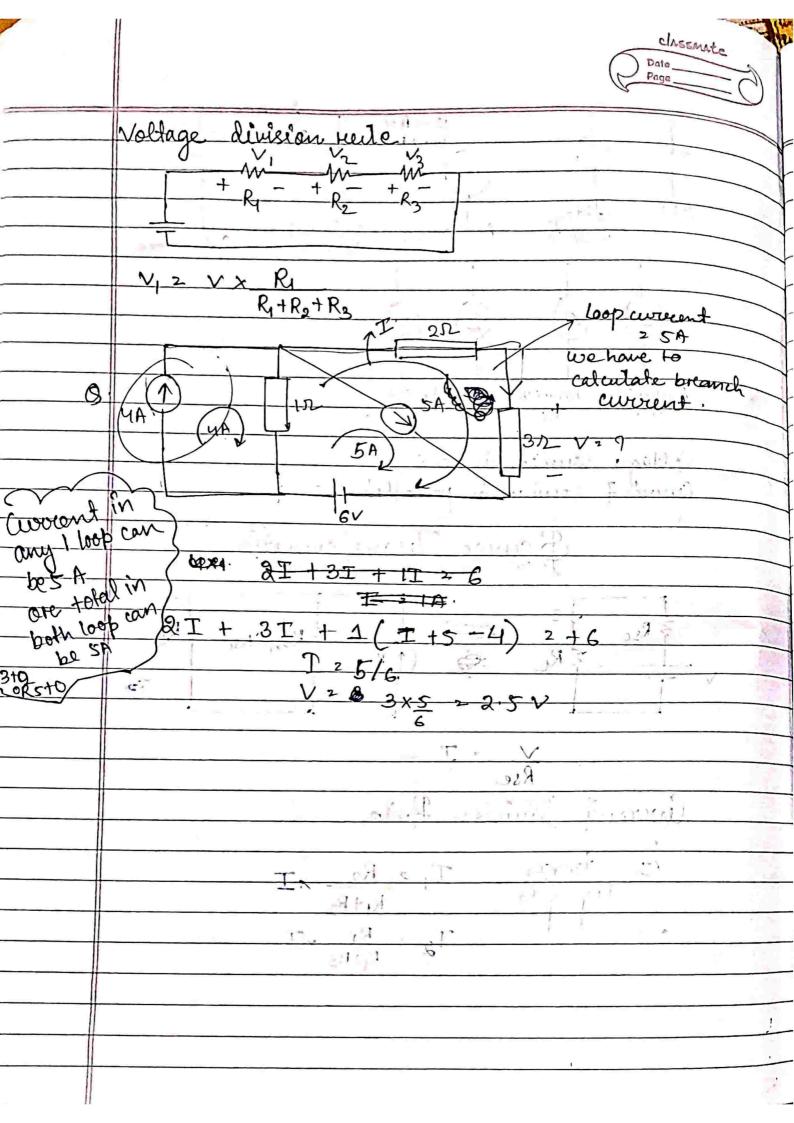
Ohm's daw				
Ohm's law whodes that the voltage across a linear element is directly proposional to the current flowing through it.				
element is directly proposional to the current				
flowing flowingh it.				
VXI				
V=IR (for	c resistive circuit)			
CT_A				
TR 10 0 V	4 7 7			
ATR R 2 DVR ATR				
Resistore -> linear.	0.77			
	diode - non linear			
	Vc 2 d SIc(+) dt]			
	Capruik			
	V12 - LolIc(t)			
	V ₂ - L dI_(t)] Ar] Induch			
Kinchhoff's law:- KCL - K. Cweent Law				
KCL > "K. Current Law				
KVL -> K. Voltage law				
KCL 11				
setting into the junction is xon	5 T.+0			
getting into the junction is zero. \\ \frac{2}{1=1} I; +0				
KVL				
The algebraic rum of all the voltage drops around the closed loop is xolo.				
Z V; 20				
4.				

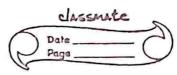




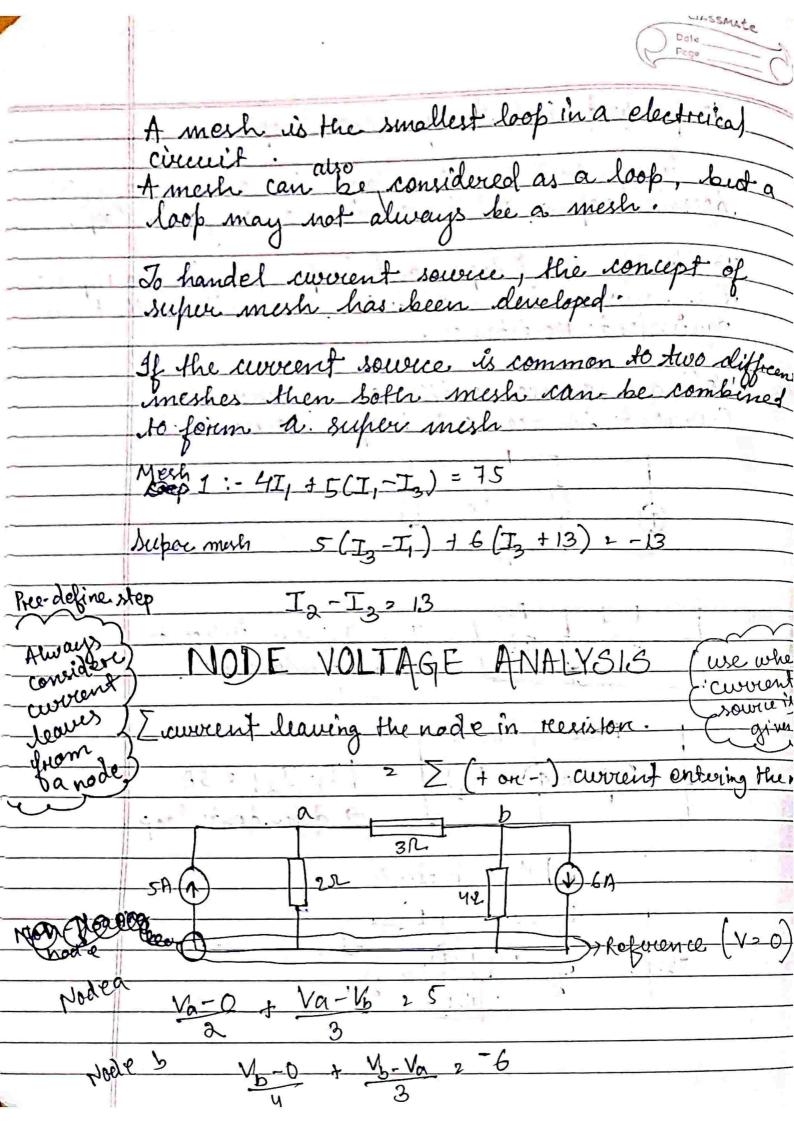


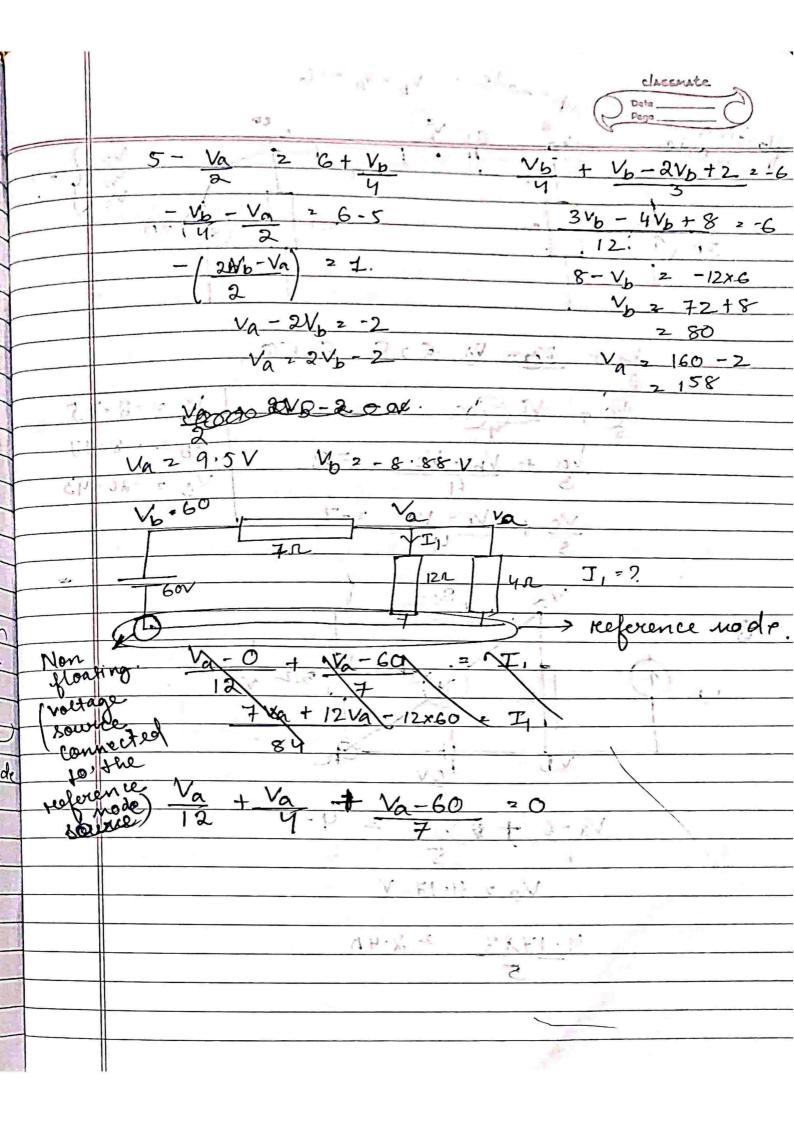


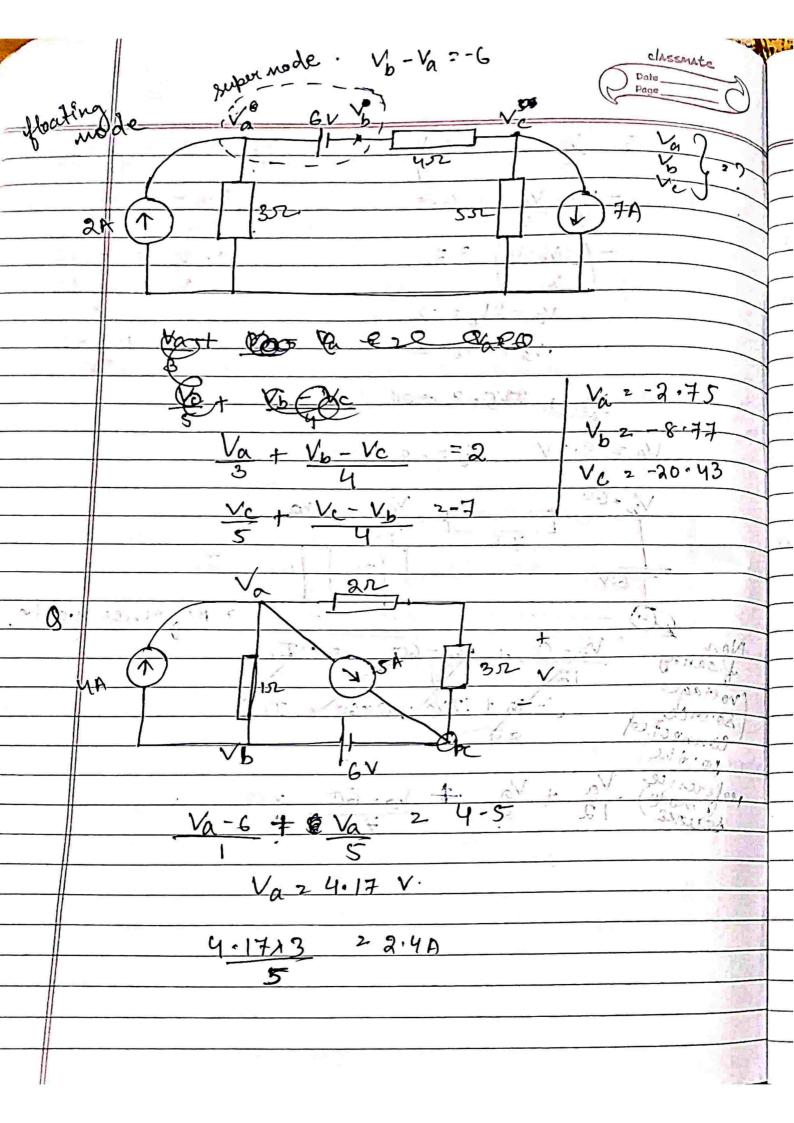


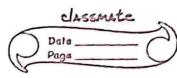


	Dependent and Independent loop
Y	An independent loop is a loop, the coverent of which doesn't depend on the coverent of any other loop.
	To identify the independent loop, one has to resplace ithe southers in the electrical circuit with their equivalent resistance.
100	Voltage source with closed circuit. Ceverent source with open circuit.
3	Caberdas -
John John John John John John John John	I I Javee indepent The sindependent loop.
bout with	The SA (Tr) II-Iz 2 5A
	Mesh dualysis 452 FSV TO SA 134 TO 134 TO 134
	T3ul

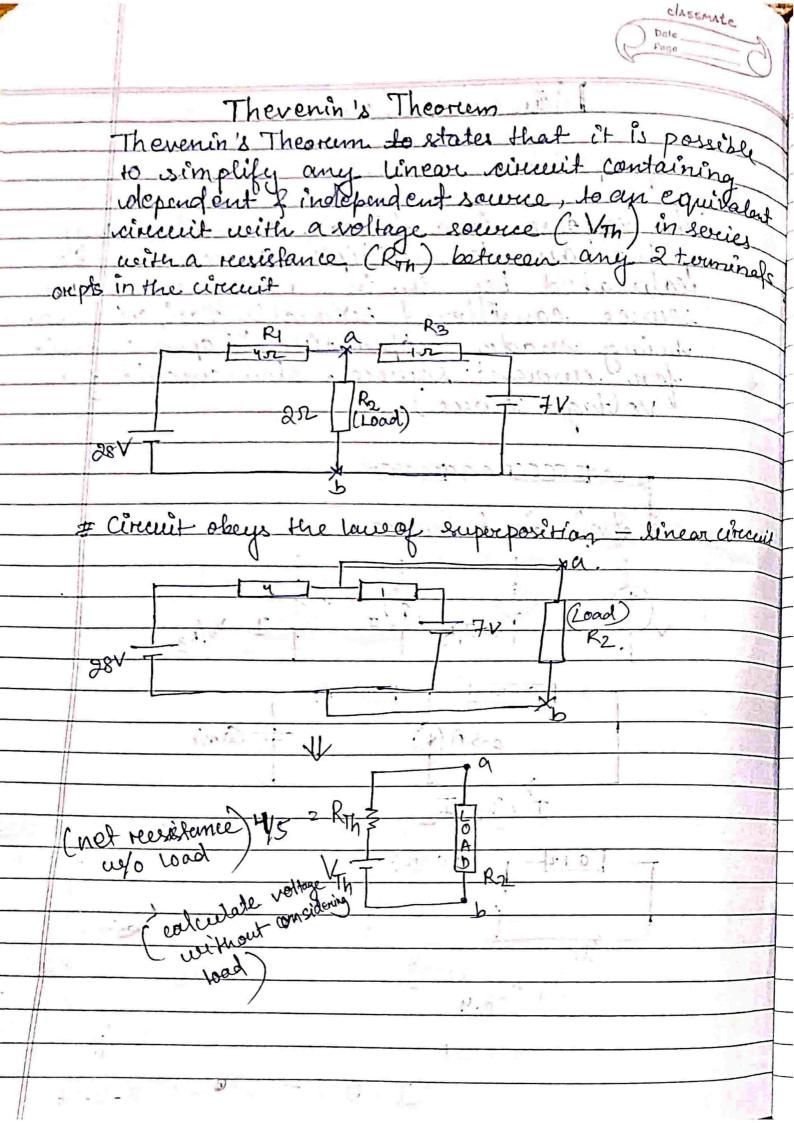


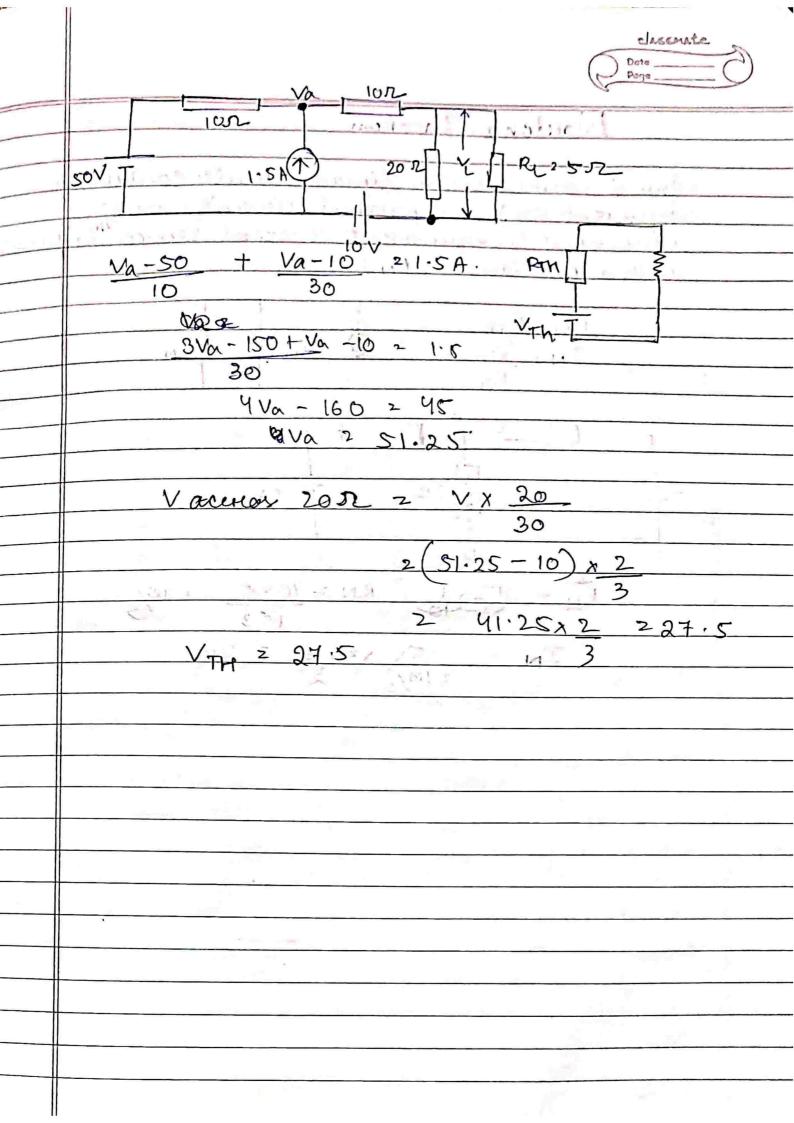


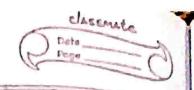




	Tags
	Network Theorems
	Superposition Theorem.
	A TOTAL STREET STREET STREET STREET STREET STREET
	The reesponse in a linear circuit at any
_	point due to multiple sources can be
	influented by suming the ellerte of each
_	source considered separative (open circuit
	being made inoperative (open circuit
	for award south g shore we cut for
	Voltage souvre.)
-	
-	The second second
-	d Dependent Source
-	4 dependent source
1	
1	(-1)
1	V=IR3 T=V3/R3
	0.132
	0-5A(V) + SmV
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	$T' \cdot T_1 + T_2$
-	0151
-	0.12 0.32 DO.5A
+	= 80 mV
1	T.
1	$\frac{1}{2} \frac{80 \times 10^{-3}}{0.4} \qquad \frac{1}{2} \frac{2 \cdot 5 \times 0.3}{0.4}$
1	2 15 = 0:37
	2 0·2 A
	I20.2-0.037 2-0.17



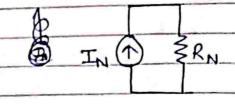


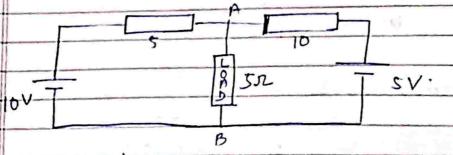


Norton's Theorem

Any & torminal of a linear circuit containing dependent and independent circuit can be converted to equivalent averant source in parally coima receivence (RN)

RN= RTH IN= VTH RTH





RN 2 5000 RN 2 10x5 10/3

IN 2 18/3 2 2:5

Maximum Power Triansfer	A STATE OF THE STA
Maximum power is absorbed from a load resistance is equal to the out the network as seen from the l	network when the
load resistance is equal to the out	put resistance of
the network as seen from the I	oad side
	1
P = 12RL	
$\frac{P^{2}\left(\frac{V_{Th}}{R_{th}+R_{L}}\right)^{2}R_{L}}{R_{th}+R_{L}}$	пŞ
$\left(\begin{array}{c} -1 \\ -2 \\ \end{array}\right)$	Z Z RL
17hTNL	Th T
10	
70	
dR. RTHORL	
Impendance Matching	
Star-Dolla Transformation	
fa .	17
~ mi ~ y	$Y \rightarrow \Delta$
My R2 RARC	
M = MIC	R = R1R2+ R2R8+R3
RC RS FRB RATEBORC	R3
R ₂ 2 R _A R _B	Roz R. P. + R. Ro + R. H.
P + Roll P	RB = R1R2 + R2R3+R1
TAT BT C	M
R3 z RBRc	0 200 100 10
$R_A + R_B + R_C$	Rc 2 R1R2+ R2R3+R3
M BTC	R ₂