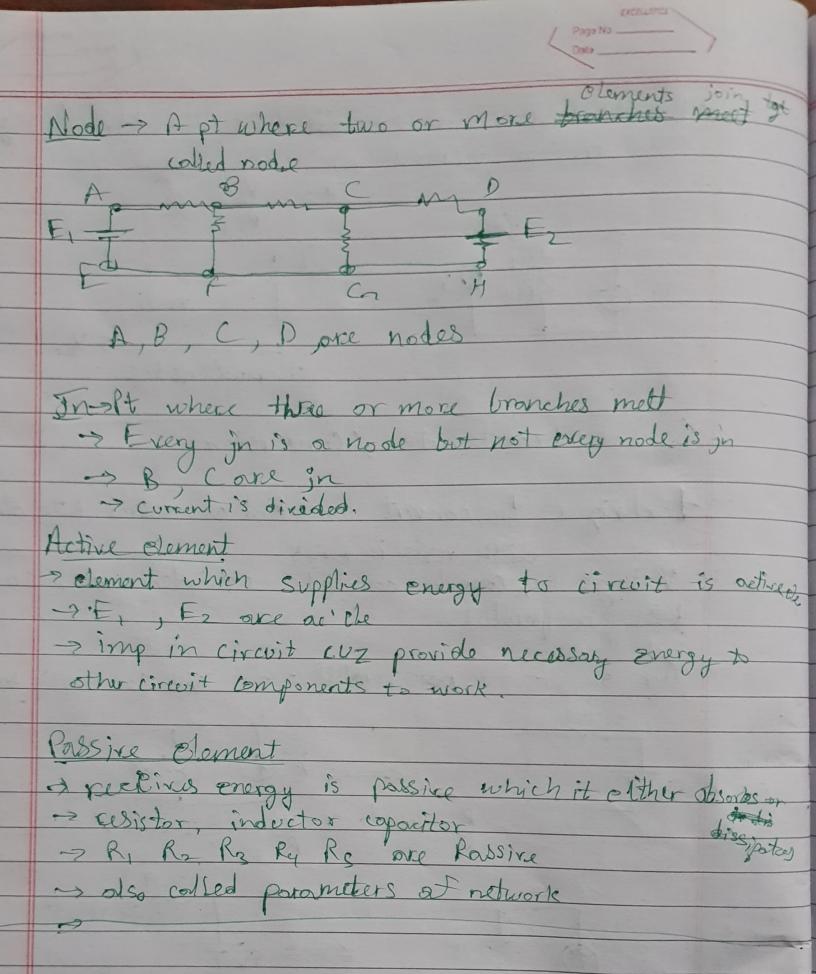
Degenent Depends an some other Independent i> indeper does not depend on any circuit quantity which may either be voltage or other quantity in circuit corrent is facts at models used critics like generator, atternator to represent electrical properties of electronic devices buch as oxedmolator etc. operational amplifiers, transistors etc in required of tempinds 1 iil only two terminals other poir shows proportion at source is 4 types 2 types indep vol so Vol dop Vol 30 indep cur so Vol dep cor so cor dep vol so cordep cor so Jdeol V? Indep vol so go mointains specified vol our ter irregat Cor drawn that it 12 Dep vol 30 produces vol ors func at vol elsenhen in given cir Vix Dep Cur -- Func of Total indep (vr so - specific)

Cur - regoundless of volocr

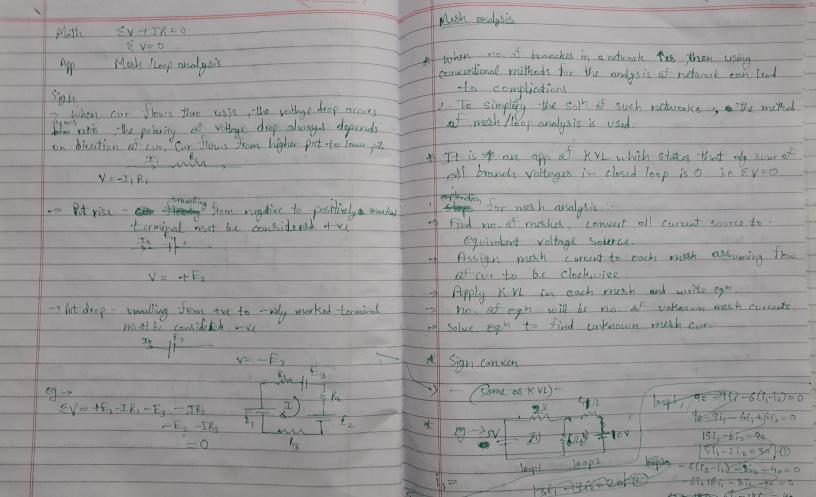
term - 3Is



I states total current flowing towards a in pt is egual to tot cur flowing out at in pt. Algebraic sum of all the cur I meeting at ain pt is always zons. -> App -> Nodal analysis > Moth exp &I=0 Open circuit is current flowing towards = the

is own from in pt = -Pg II=5 A II2

VIX=2 I1= I2+ I3  $S = \overline{+2} + 2$ [I=3 A] In any network the do sum of voltage across circuit Elements in loop is equal to alg sum of ent across closed loop The dg som at all bronch voltages across a closed loop is always zero.



	Nobel Analysis	node ASB with not note C
	,	Apply KCl at node A = = = = = = =======================
14	App of KCl which States tot our flo into mode pt	$\frac{E_1 - V_A}{R_1} = \frac{V_A - V_B}{R_2} + \frac{V_A}{R_4}$
	is pared to tot our flo out of in At.	R. R2 Ry
		out note B . In = T + Ik
K	In this method, one of the nodes is taken as reterence	ort node B . Is = Iz + Iy  VB VA VB E 2 - VB - (2)  Ro R2 R3  The this way we can find values of val VB  by the help of above two cghs.
	node or zero pot node or dotum node whose pot is 0 & assing	Re Ra Ra
	and the pet diff the coan of the other & reference node	To this was sup find values at mal ve
	is expressed in terms at unknown voltage (VA, VB, ~)	to the hill of share two cans
	The state of the s	y he reep a were out of s.
*	Then KCl is pooled at each node assemina the assille	Proces Sources
	Then KCl is applied at early node assuming the possible direction at branch current.	The state 2 than
		The Tyles
*	Node val three reduces no at man to be solut to	Theory Sources Thus types forther 2 types Not Ideal Cur from
	Node val the reduces no at ogr to be solved to Sind unknown quantities.	The state of the s
		Ideal Vol So defined as which
*	no of nodal zon in terms of (n-1) no of intercomp	defined as which
-	no at nodal egn in terms of (n-1) in attacknown	gives const voltage across its terminal irrespective of
	gur nodal voltages.	the current drawn by thru terminal
	sign conx.>	FL Ve
	Explanation:	y Vs=K
	m from B m	V. A. V. D. I. J.
	F - 3 12 23 13 Aug	
	3/3 1 -2	Sypolia Vol So Ided characteristic -
-		Sypote of Vol So Teld Vs = VL characteristic TL
-	Explanation:  Resplanation:  Resplan	Internal resistance = 0
1	Consider circuit of these is a significant	TRSP=0
-	Johan as reference node & VH VB by voltags of	
	It, VB by voltags &	

