

\* 22 topic pelated Math of ENTED:

> Current so Direction एवं कर्वा माणायनि question s म कि त्कादमा hint त्पर्ग मा शास्त्र जारुक्त हिल् निर्ण स्था

Total Resistances Do Voltage (N) Do Canto voltage polarity emits (+,-) Do From con zoono 2711

Soft gara Som 2 on The Absorber 20 (+) sign Ary or oak arol

+ mm roi

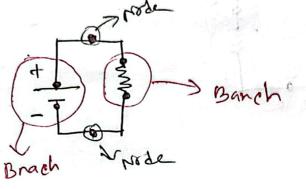
2 so, sollow current so stress so Trap Depend mo (+, -) set anou 2 set question s si out artoi

A Resistance A aloneays Absorber ]

Example: 1+21) Essert current of fact star V=+IR7 one and exceptional case question - Arry Y=-IR

## Branch, Node and Loop

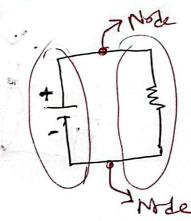
Branch: A branch is anyl portion of a circuit with two terminals connected to it.

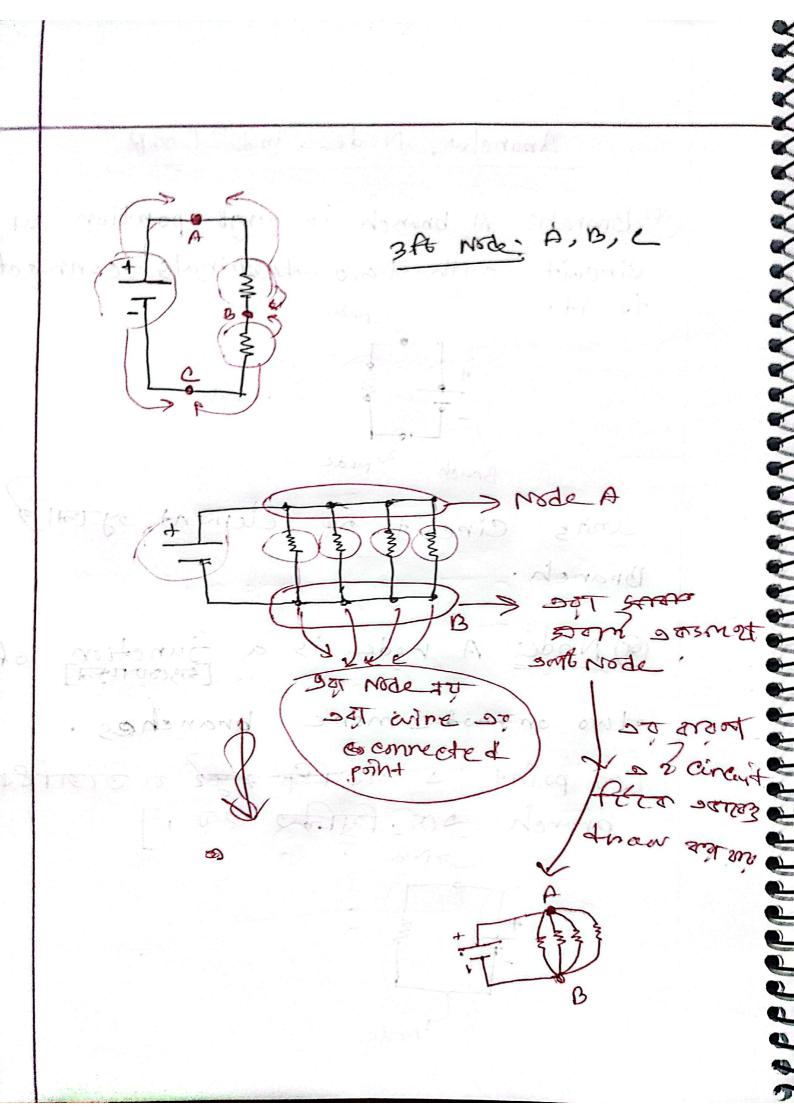


ante circuit 00 element often 2

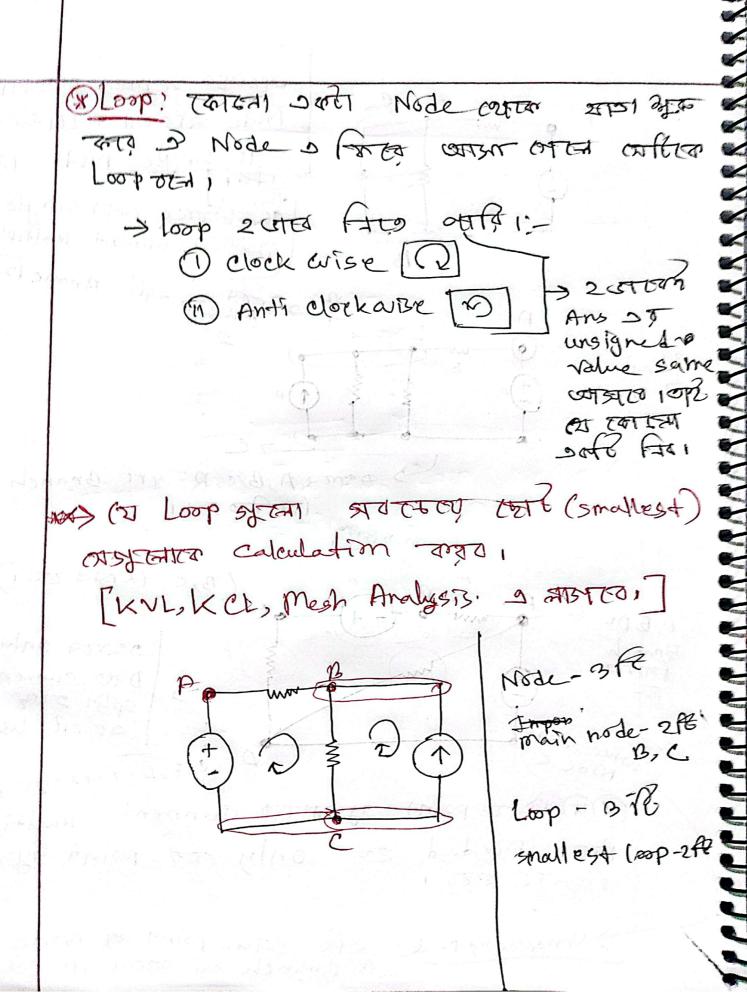
Node: A node is a junction of two or mobe more branches.

[(v point a 2211 8 27 8 0001800) branch 200 (20 1)





apart series o on Par Node enotal oras sortes soft single male frame ech more conta single nobe of carrier multiple apt B Der FB,C,D 34/2 Brane (25/2) 20 E 2 At Granch Dognes A, B, e, D- 4 At Branch (2) A3 201 (B, e- Parto 201) A A, ED= server only Asso, Branch Split 2602 100 22 2 ft lye 2000. Timelyon (c'E'D- (Juy = Sio !) (XXXX) (I point of Carment multiple Area Dinded 24 only (202 point year) tous anso 1 Unnessary rode: De corat point of vode enty 2A Branch 20 21104 81 24



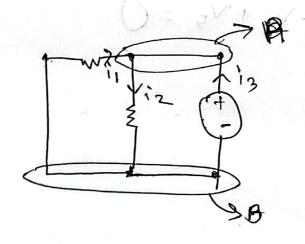
## KCL (kinehoff's Current Low)

( contain Node o total ( current 500 1 same amount so current coo 20.



715 Yin 1,+13+14=12+15

: & Fingoing = & Toutgoing



According tokel in Node A:

11,+13=12

AVL (kinechoff's Voltage Law)

Do stot Loop so ston element so valtage

Do total sum always Zero zto.

Ex.

The property of the coop are get:

-V, +V2 +V3 -V9 +V5 = 0