



If $R_1 = R_2 = R_3 = R$ or $R_A = R_B = R_C = R$ then,

 $RA = \frac{R_1R_2 + R_1R_3 + R_2R_3}{R_1} = \frac{3R^2}{R} = 3R$

: RA = 3R = RB = RC.

80, Ra = 3Ry

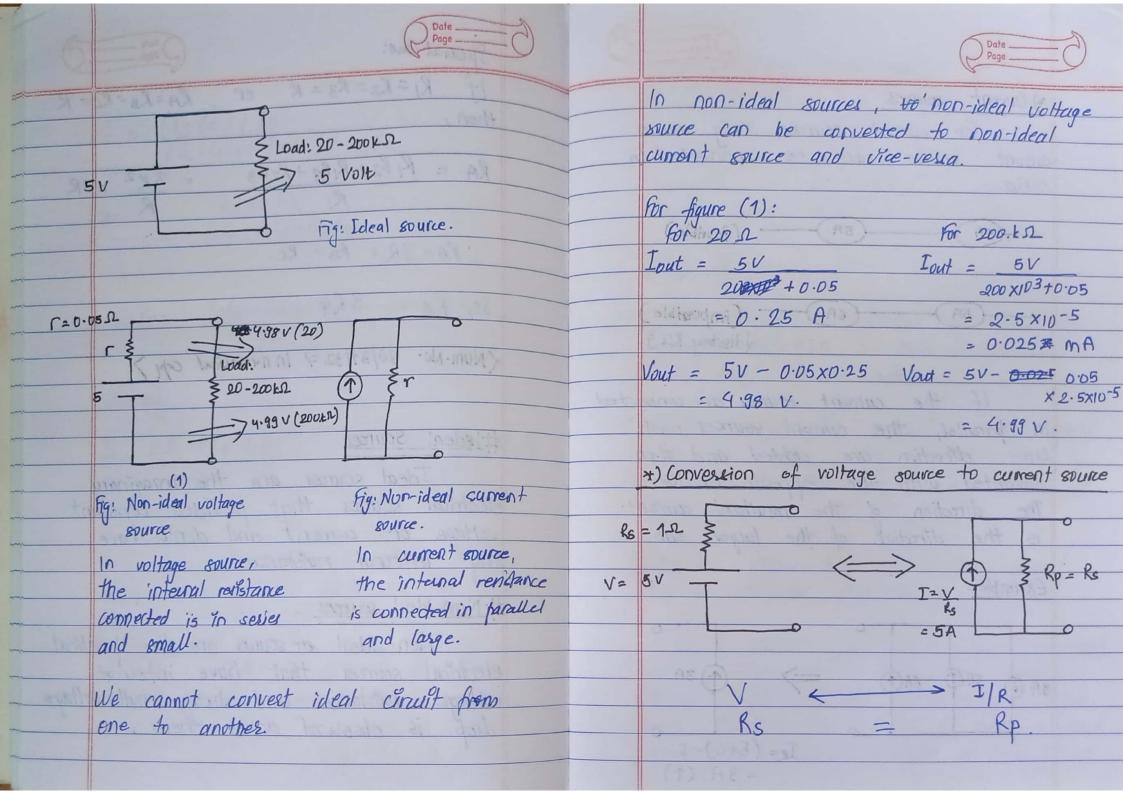
< NUM·No. 30/31/32 => In numerical com>

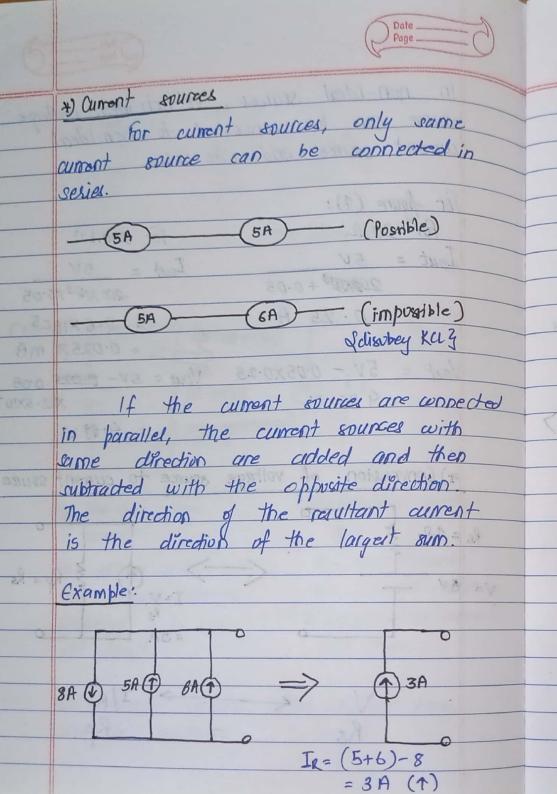
#ledeal Sources

Ideal sources are the imaginary electrical sources that provided constant voltage or current and don't have any internal reistance.

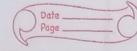
Non-ideal sources

Non-ideal ar sources are the practical electrical sources that have internal voltage resistance and show small voltage drop is obsessed across them.





∠Num. No.33 → In numericals copy >

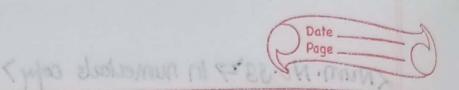


Mech Analysts

Hesh analysis is a method that is used solve planar circuits for any currents at any place in electrical circuit using KVL.

Steps to solve:

- Jetep 1: Assign a distinct current in the clockwise direction to each independent closed loop of the network.
- step 2: Indicate the polarities within each loop for each revision as determined by the assumed direction of loop current for the loop.
- 1 Step 3: Apply KVL around each closed loop in clockwise direction
 - a): If a resistor has two or more assumed currents through it, the total current through the resistor is assumed current of the loop in which KVL is being applied plus the assumed current of the other



loops passing through in the same direction minus the assumed current through in the opposite direction.

b) The polarity of a voltage source is unaffected by the direction of the assigned loop currents.

Step 4: Solve the resulting simultaneous linear equations for the assumed loop aments.

< Num. No.34 => In numeri | 35/36/37 = In num copy)