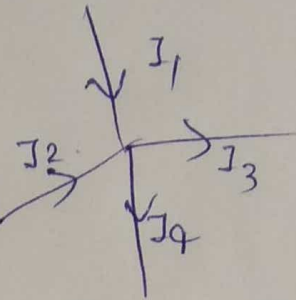


Formula sheet:-

① Current law:

$$\boxed{\sum I_i = 0}$$

$$\boxed{I_1 + I_2 - I_3 - I_4 = 0}$$



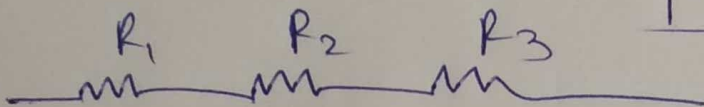
Current coming to the junction = +ve
going from the junction = -ve

② Voltage law:-

$$\boxed{\sum V_j = 0}$$

for closed loop.

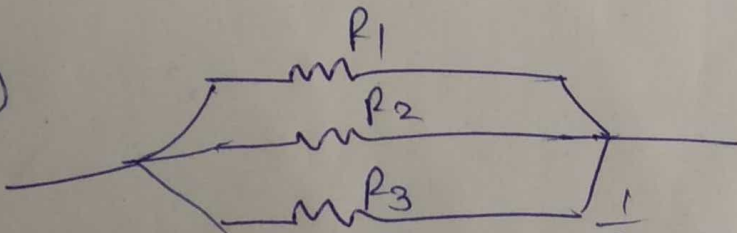
③



$$\boxed{V = IR}$$

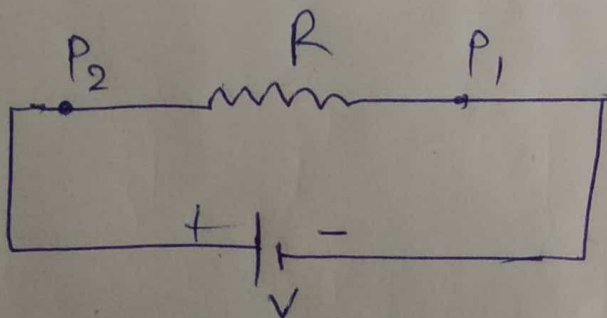
$$R_{eq} = R_1 + R_2 + R_3$$

④



$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

⑤



potential at $P_2 >$ potential at P_1 .