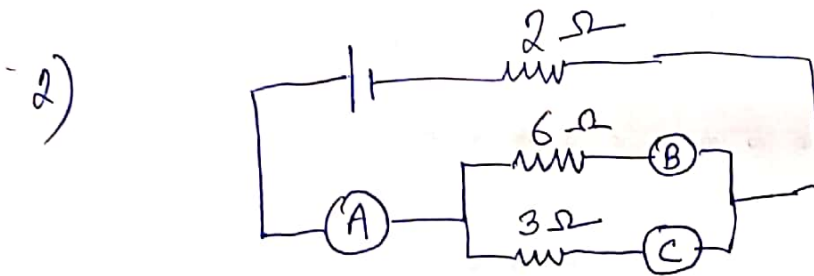


- Find total resistance of the circuit
- The value of R
- Current through R .

[20Ω , 30Ω , $0.2A$]

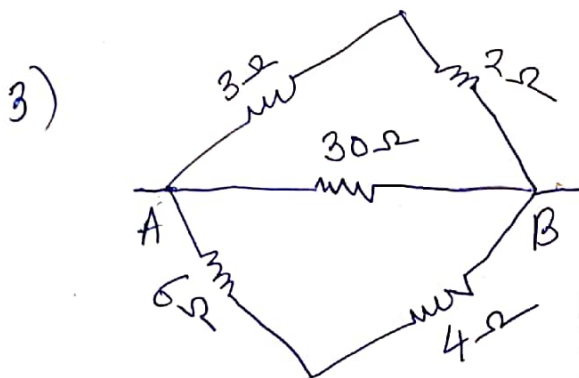


A, B, C are ammeters.

(B) reads $0.5A$.

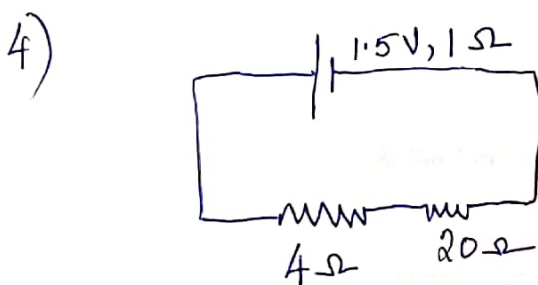
- Find readings of (A) & (C)
- Total R of the circuit

[$1.5A$, $1A$, 4Ω]



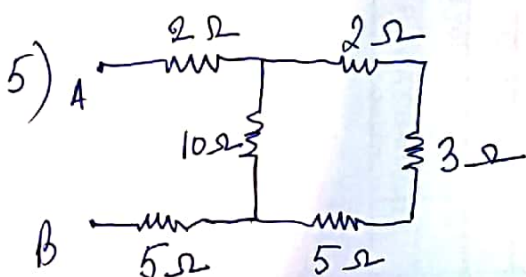
Find equivalent R

[3Ω]



- current in the circuit
- p.d. across 4Ω
- voltage drop when current is flowing
- p.d. across the terminals of the cell.

[$0.06A$, $0.24V$, $0.06V$, $1.44V$]



Find equivalent R between A & B

[12Ω]

4. An electric heater is rated $1000\text{ W } 200\text{ V}$. Calculate its resistance and current through it.
5. Calculate the value of the resistance which must be connected to a $15\ \Omega$ resistance to provide an effective resistance of $6\ \Omega$?
6. A family uses a light of 100 W , a fan of 100 W and a heater of 1000 W , each for 8 hours a day. If the cost of electricity is $\text{₹ } 2$ per unit, what is the electricity bill for a month of 30 days?
7. The equivalent R is $4\ \Omega$. Find x

