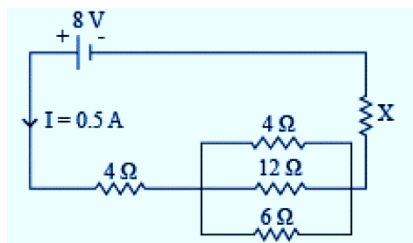
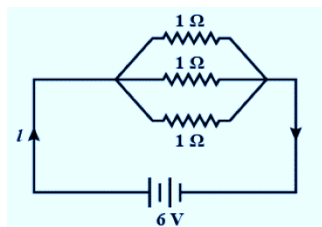


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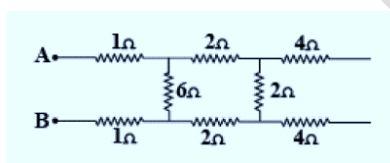
- 1 kWh is equal to _____ J
- Find the value of resistor X in the given circuit.



- Three equal resistors are connected in series across a source of potential 220V together dissipate 60 watts. If the same resistors are connected across the same source, what will be the power dissipation?
- What is the total amount of current flowing in the circuit?

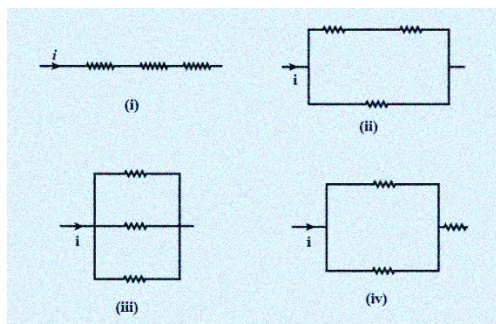


- What is the equivalent resistance between the A and B points in the given circuit?

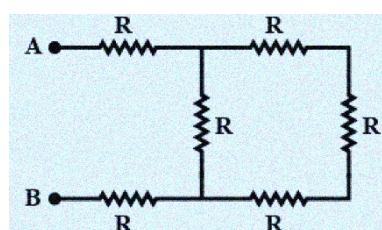


- If we divide a wire of resistance, R, into ten equal parts and connect them in parallel, what will be the circuit's equivalent resistance?
- A bulb rated at (100W-200V) is connected in a 100 V line. Find the current flowing through the filament of the circuit?
- Assertion: Direction of current from positive potential to negative potential.
Reason: The direction of the current is opposite to the flow of electrons.

9. The three resistances of equal value are arranged in the different combinations shown below. Which circuit has a higher power dissipation?



10. Find the value of equivalent resistance between the points in the given circuit, A and B.



11. Why the resistance of the conductor increases with increasing temperature?
12. What is the minimum resistance that one can obtain by connecting all the five resistances each of 5 ohms.?
13. An electric bulb is rated 220 volts and 100 watts; find power consumed by the bulb when it is connected to 110 volts.
14. A bulb is connected to a line of 300V consumes 100 watts of power. The resistance of the filament of the bulb is?
15. Determine the power of an electric bulb that consumes 2400J in just one minute.
16. Calculate the electrical energy consumed in B.O.T when a 60 W bulb is used for 30 minutes.
17. When two resistances R_1 and R_2 are connected in series, they consume 24 watt power. When they are connected in parallel, they consume 50 watt of power. Then Find the ratio of the powers of R_1 and R_2 ?
18. An electricity bulb of 100 watts is connected to a supply line of 220V. What is the resistance of the filament?
19. An electric bulb of resistance 20 ohm draws a current of 0.04A. Calculate the potential difference at the ends.

For any assistance contact us on – cbsephysicsupdate@gmail.com

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