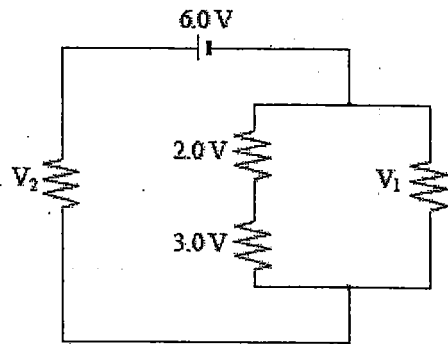
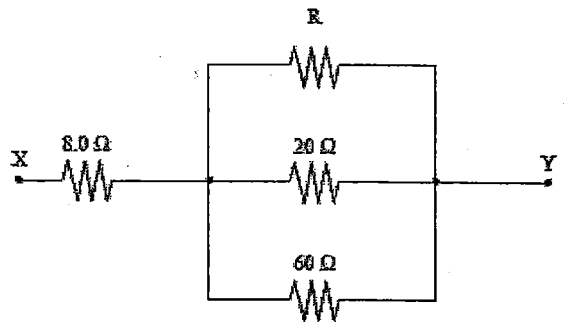


Electric Circuits Worksheet

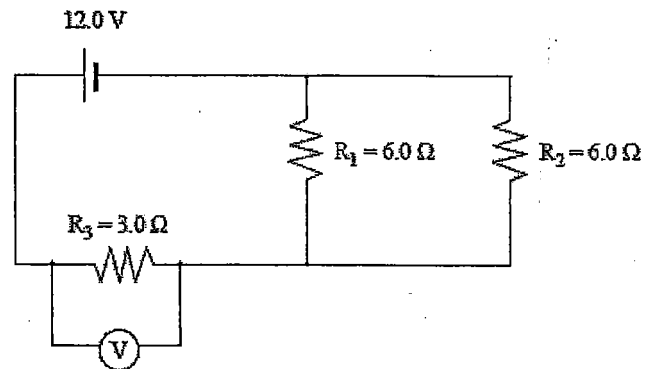
1. What are the potential differences, V_1 and V_2 , in the circuit shown?



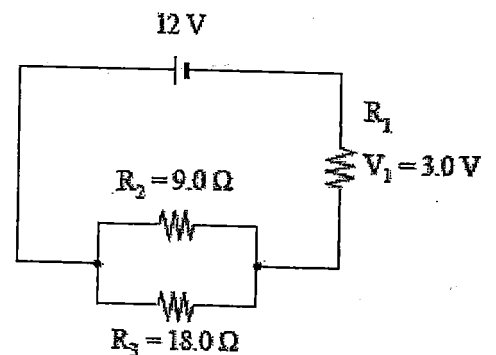
2. The total resistance between points X and Y is 14.0Ω . What is the value of R?



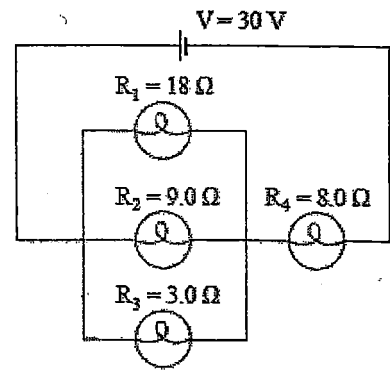
3. A voltmeter is connected across a 3.0Ω resistor in the circuit shown. What is the reading on the voltmeter?



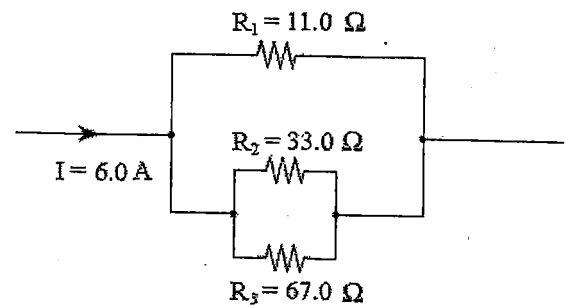
4. Find the current through the battery in the circuit shown.



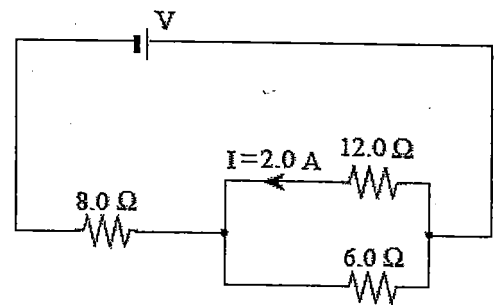
5. Find the current in the $8.0\ \Omega$ bulb shown.



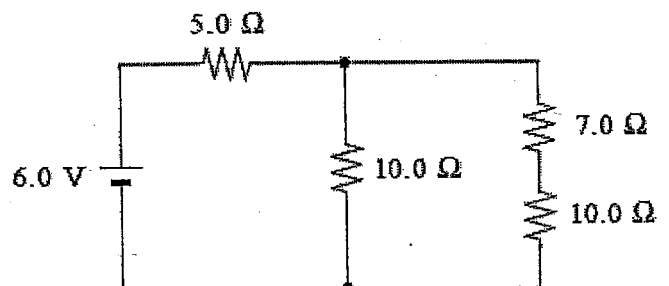
6. The diagram shows part of an electrical circuit.
What is the current through resistor R_1 ?



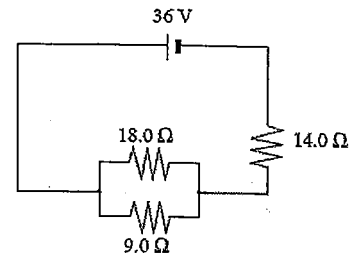
7. What is the voltage, V , of the power supply shown in the circuit?



8. What is the current through the $7.0\ \Omega$ resistor? How much charge flows through the $7.0\ \Omega$ resistor in a 30 second interval?



9. What is the power dissipated in the $9.0\ \Omega$ resistor in the following circuit?



10. In the following circuit, what is the power dissipated by resistor R_1 ?

