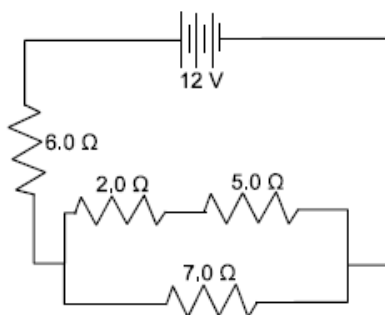
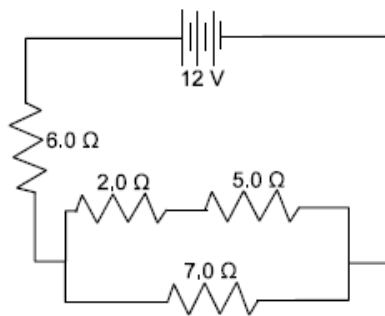


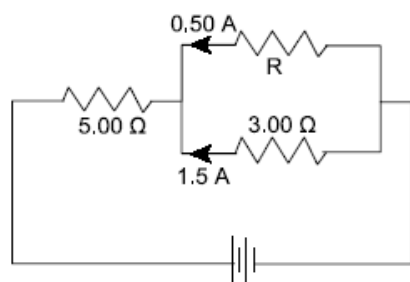
52.(d) For the circuit shown in the diagram below, calculate:



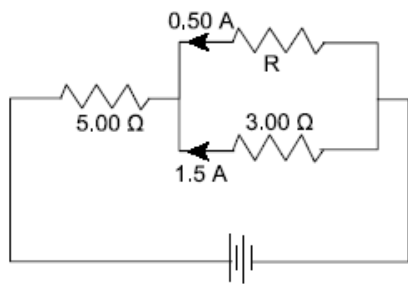
- (i) the voltage across the 6.0 Ohm resistor;
- (ii) the current through the 5.0 Ohm resistor;
- (iii) the power dissipated in the 2.0 Ohm resistor.



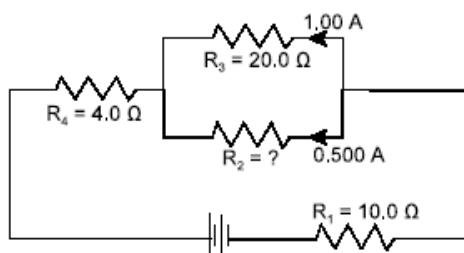
52.(c) Given the circuit in the diagram below, calculate:



- (i) the current through the 5.00 Ω resistor.
- (ii) the resistance of R.
- (iii) the potential difference across the battery.

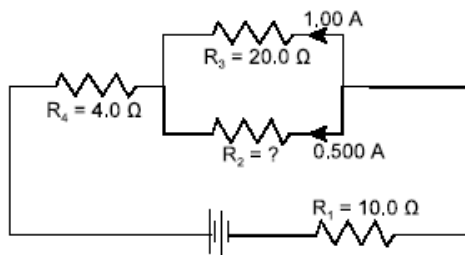


6% 52.(c) For the circuit below calculate:



- i) the value of R_2 .
- ii) the power dissipated in R_4 .
- iii) the voltage across the source.

iv) Explain how the addition of another resistor in parallel will change the total resistance of the circuit.



Value

5% 52.(c) In the circuit shown, calculate:

i) the voltage for R_4 .ii) the value of R_1 .iii) the power dissipated in R_3 .