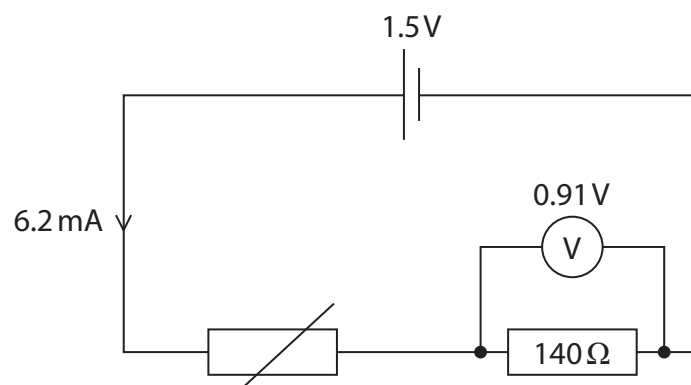


- 7 A teacher uses this circuit to investigate how the current in a circuit changes with the temperature of a room.



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- (a) (i) Calculate the voltage across the thermistor.

(2)

voltage = V

- (ii) State the formula linking voltage, current and resistance.

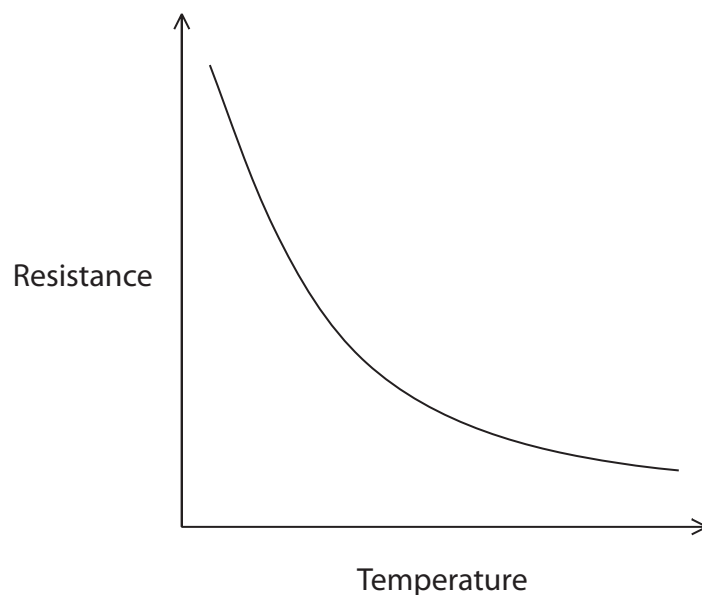
(1)

- (iii) Calculate the resistance of the thermistor.

(3)

resistance = Ω 

(b) The graph shows how the resistance of the thermistor changes with temperature.



- (i) Describe the relationship between the temperature and the resistance of the thermistor.

(2)

- (ii) Explain how the reading on the voltmeter changes when the temperature of the room decreases.

(3)

(Total for Question 7 = 11 marks)



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