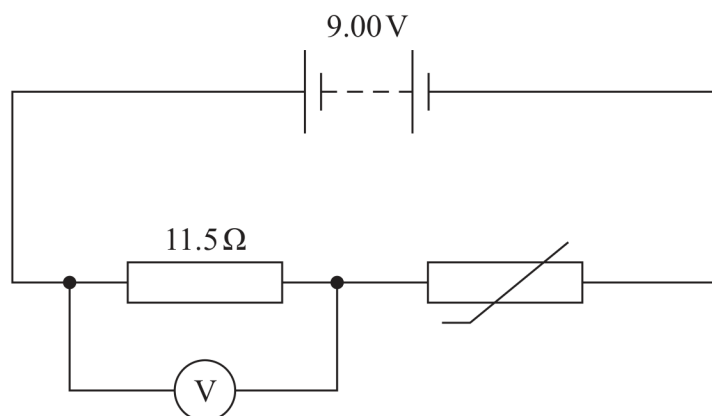
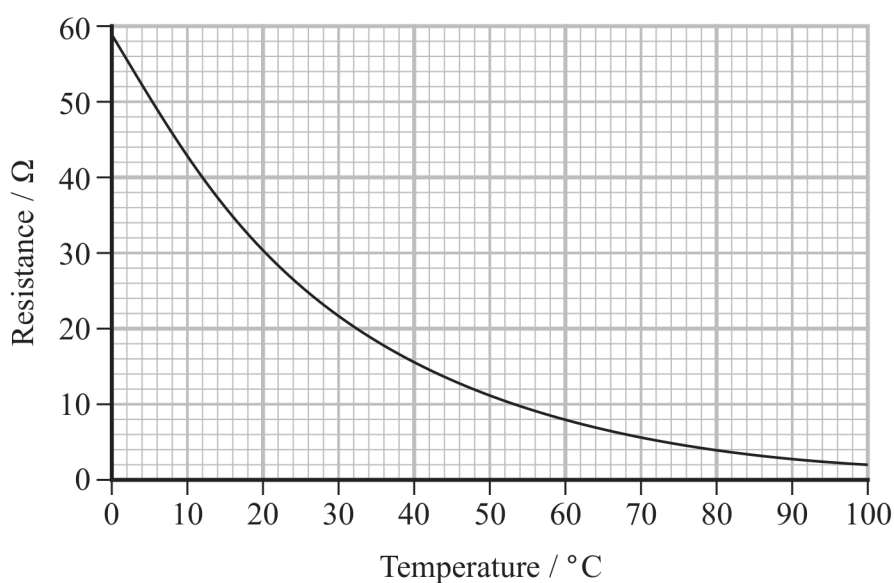


- 14 A student connected the circuit shown. The battery has negligible internal resistance.



The graph shows how the resistance of the thermistor varies with temperature.



- (a) The reading on the voltmeter is 3.42 V.

Determine the temperature of the thermistor.

(4)

Temperature =



- (b) The student suggests that if the e.m.f. of the battery is doubled, the reading on the voltmeter will double.

Assess whether the student's suggestion is correct.

(4)

(Total for Question 14 = 8 marks)