

- 3 The electrical resistance of a thermistor is to be used to measure temperatures in the range 12 °C to 24 °C. Fig. 3.1 shows the variation with temperature, measured in degrees Celsius, of the resistance of the thermistor.

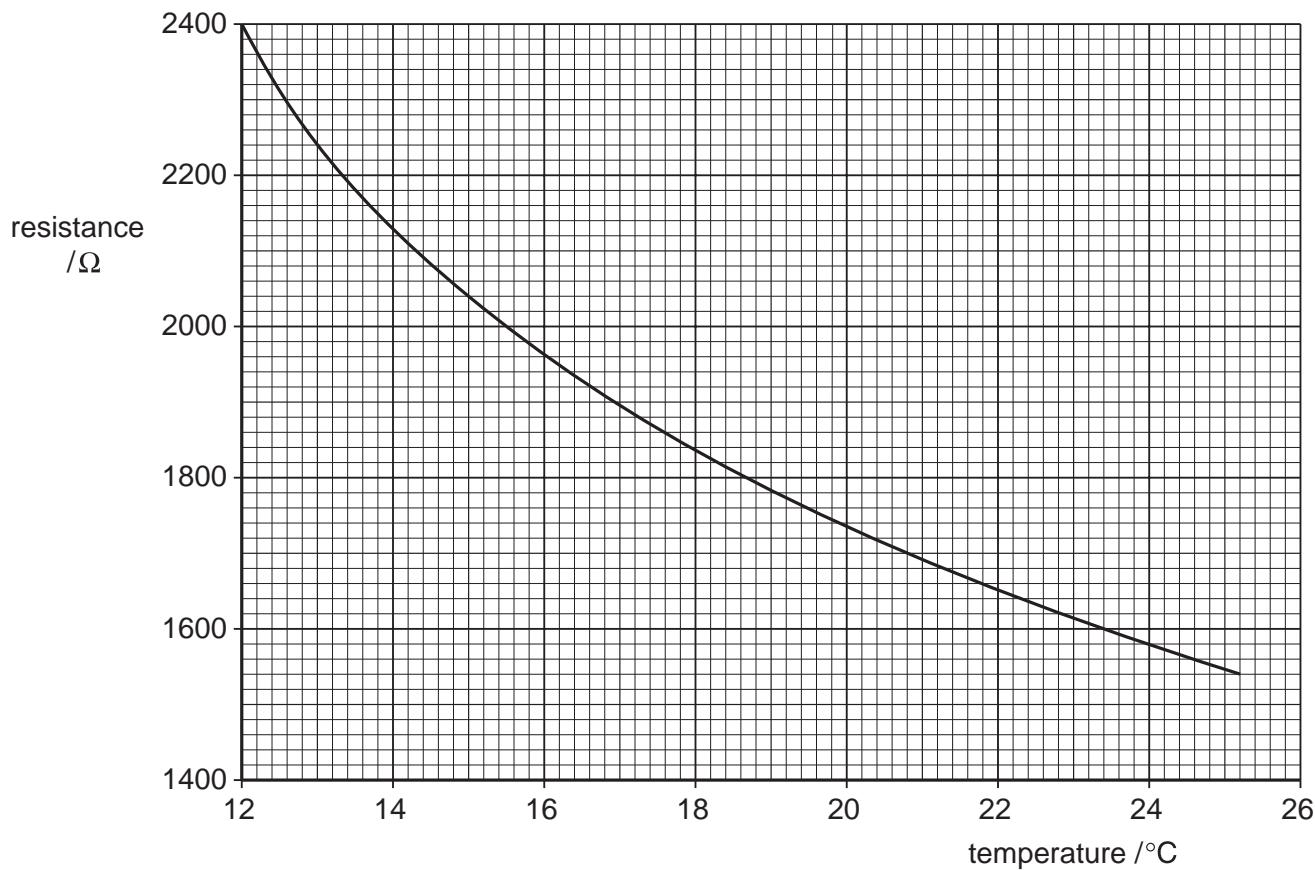


Fig. 3.1

- (a) State and explain the feature of Fig. 3.1 which shows that the thermometer has a sensitivity that varies with temperature.

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- (b) At one particular temperature, the resistance of the thermistor is  $2040 \pm 20 \Omega$ .

Determine this temperature, in kelvin, to an appropriate number of decimal places.