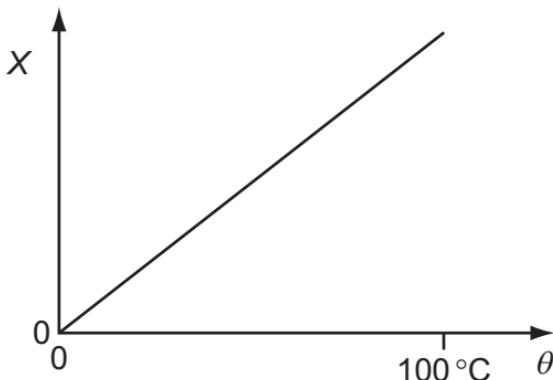


- 6 A quantity X varies with temperature θ as shown.



θ is determined from the corresponding values of X by using this graph.

X is measured with a percentage uncertainty of $\pm 1\%$ of its value at all temperatures.

Which statement about the uncertainty in θ is correct?

- A The percentage uncertainty in θ is least near 0°C .
- B The percentage uncertainty in θ is least near 100°C .
- C The actual uncertainty in θ is least near 0°C .
- D The actual uncertainty in θ is least near 100°C .

- 7 The measurement of a physical quantity may be subject to random errors and to systematic