**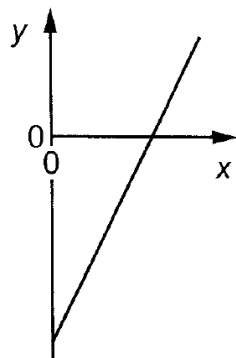12** The graph shows the relationship between the volume and temperature of a fixed mass of an ideal gas at constant pressure.



What is the quantity and appropriate unit on each axis for this graph?

| | y-axis | x-axis |
|---|---|---|
| A | volume / $m^3$ | temperature / K |
| B | volume / $m^3$ | temperature / °C |
| C | temperature / °C | volume / $m^3$ |
| D | temperature / K | volume / $m^3$ |