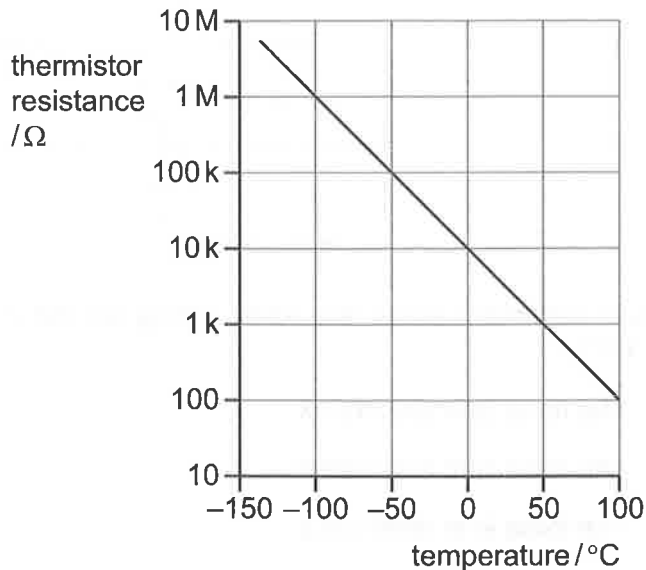
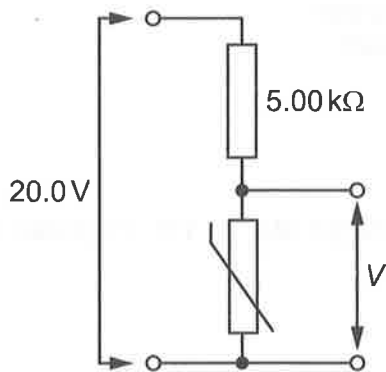


- 22** A thermistor is connected in series with a $5.00\text{ k}\Omega$ resistor. The thermistor and resistor are connected across a 20.0 V source to form a potential divider. The thermistor can be maintained at different temperatures.



What is the output potential difference V when the temperature of the thermistor is 50°C ?

- A** 3.3 V **B** 13.3 V **C** 16.7 V **D** 19.0 V

- 23** The electric force on an α -particle at point X in the electric field of a gold nucleus is 25 N .