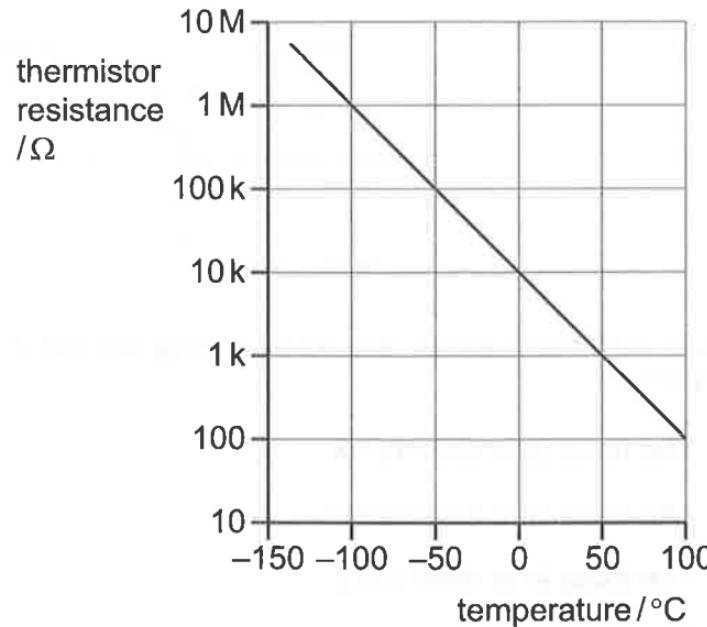
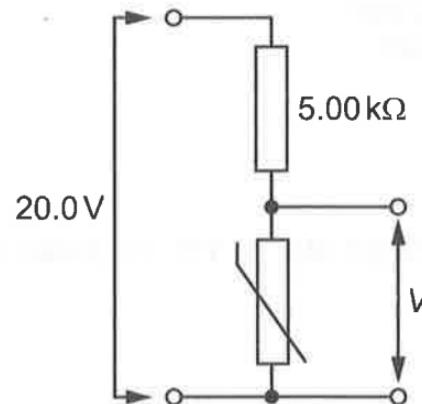


- 22 A thermistor is connected in series with a $5.00\text{ k}\Omega$ resistor. The thermistor and resistor are connected across a 20.0 V source to form a potential divider. The thermistor can be maintained at different temperatures.



What is the output potential difference V when the temperature of the thermistor is $50\text{ }^{\circ}\text{C}$?

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

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