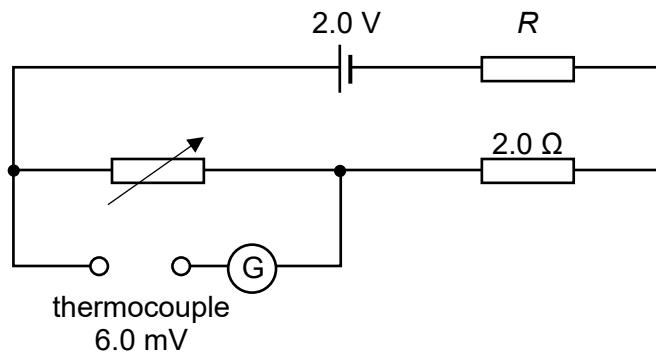


**21** The diagram shows a circuit for measuring a small e.m.f. of 6.0 mV produced by a thermocouple. There is zero current in the galvanometer when the variable resistor is set to  $3.0\ \Omega$ .



What is the resistance  $R$ ?

- A**  $667\ \Omega$
- B**  $995\ \Omega$
- C**  $1100\ \Omega$
- D**  $1662\ \Omega$