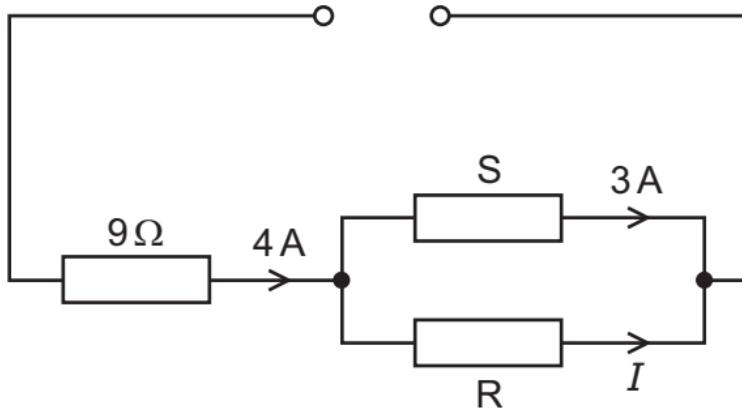


38 The circuit below has a current  $I$  in the resistor  $R$ .



What must be known in order to determine the value of  $I$ ?

- A e.m.f. of the power supply
- B resistance of resistor  $S$
- C Kirchhoff's first law
- D Kirchhoff's second law

39 An experiment in which  $\alpha$  particles were deflected by a gold foil produced new insights into the