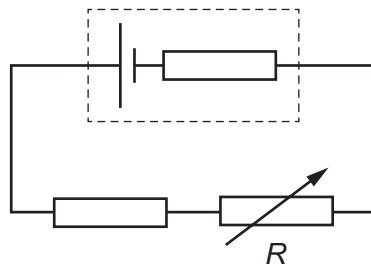
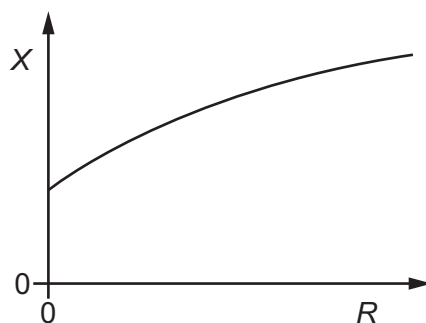


- 37** A fixed resistor and a variable resistor are connected in series with a cell that has an internal resistance, as shown.



The graph shows the variation of a quantity  $X$  with the resistance  $R$  of the variable resistor as  $R$  is increased from zero to its maximum value.



What could  $X$  represent?

- A** the current in the circuit
- B** the electromotive force of the cell
- C** the potential difference across the internal resistance
- D** the terminal potential difference across the cell