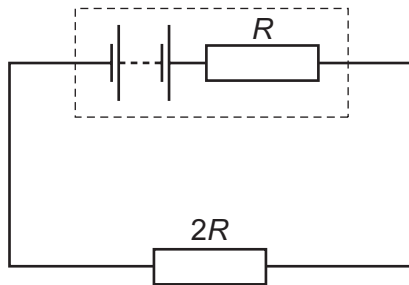


- 34** The diagram shows an electric circuit in which the resistance of the external resistor is $2R$ and the internal resistance of the source is R .



What is the ratio $\frac{\text{power in internal resistance}}{\text{power in external resistor}}$?

A $\frac{1}{4}$

B $\frac{1}{2}$

C 2

D 4

- 35** The graph shows the variation with potential difference V of the current I in components X , Y