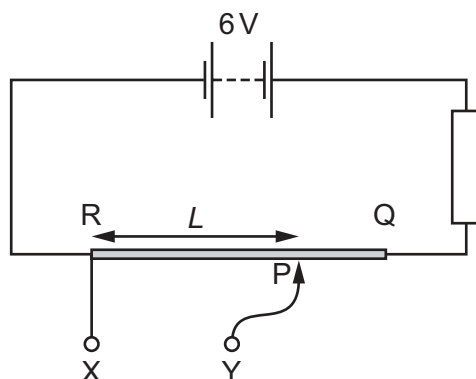


- 38** The diagram shows a battery of electromotive force (e.m.f.) 6 V, connected in series with a resistor and a uniform resistance wire RQ of length 60 cm.

The resistance of RQ is equal to the resistance of the resistor.



Terminal X is connected to fixed point R. Terminal Y is connected to point P, a connection that may be made at any position along the wire.  $L$  is the distance between R and P.

Which graph shows the variation with  $L$  of the potential difference (p.d.)  $V$  across XY?

