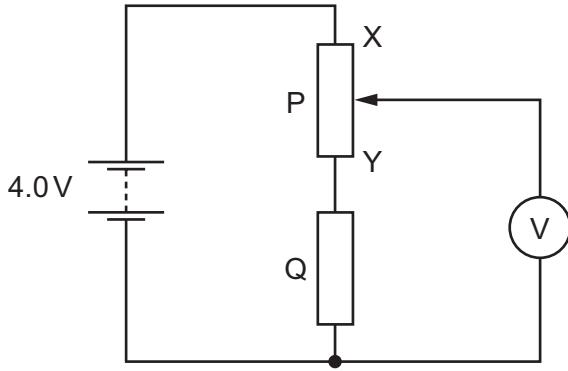


- 38 In the circuit below, P is a potentiometer of total resistance  $10\Omega$  and Q is a fixed resistor of resistance  $10\Omega$ . The battery has an e.m.f. of  $4.0V$  and negligible internal resistance. The voltmeter has a very high resistance.



The slider on the potentiometer is moved from X to Y and a graph of voltmeter reading  $V$  is plotted against slider position.

Which graph is obtained?

