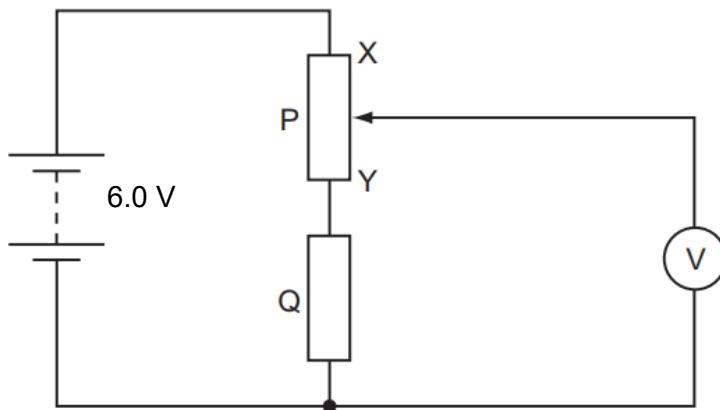
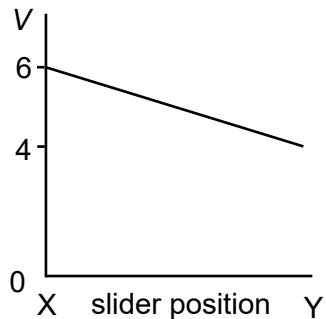


- 23 In the circuit below, P is a potentiometer of total resistance 10  $\Omega$  and Q is a fixed resistor of resistance of 20  $\Omega$ . The battery has an e.m.f. of 6.0 V and negligible internal resistance. The voltmeter has a very high resistance. The slider on the potentiometer is moved from X to Y and a graph of voltmeter reading  $V$  is plotted against slider position.

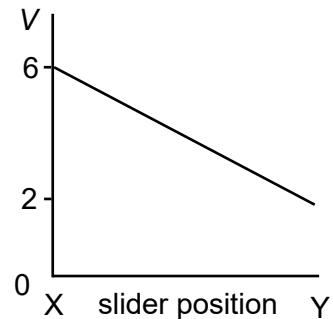


Which graph is obtained?

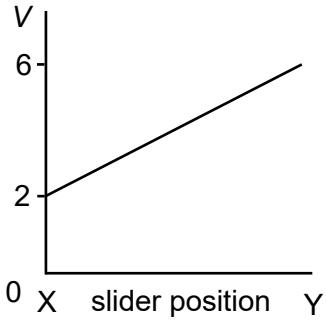
A



B



C



D

