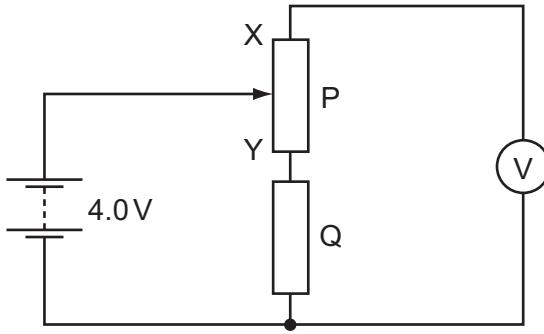
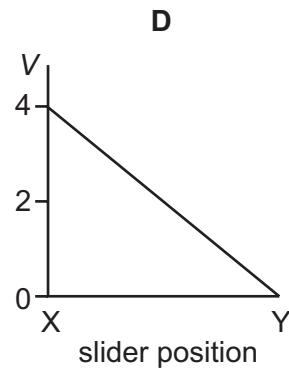
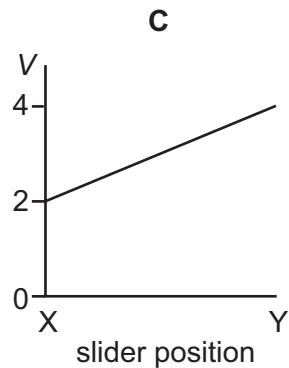
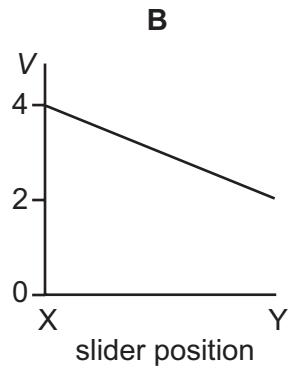
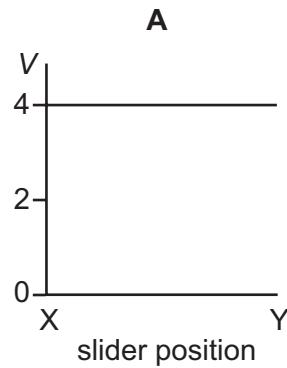


- 37 In the circuit below, P is a potentiometer of total resistance 10  $\Omega$  and Q is a fixed resistor of resistance 10  $\Omega$ . The battery has an e.m.f. of 4.0 V and negligible internal resistance. The voltmeter has a very high resistance.



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 would be obtained?



Space for working