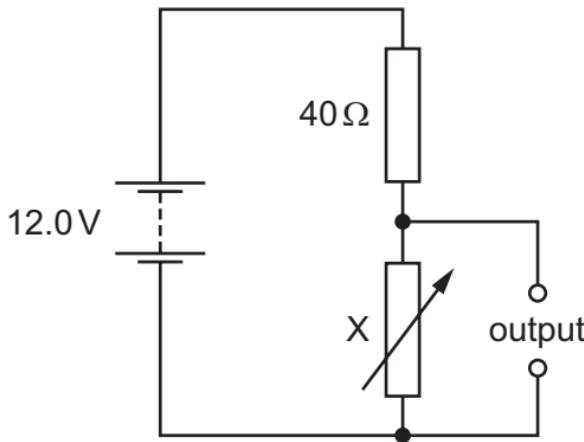


- 34 In the circuit shown, X is a variable resistor whose resistance can be changed from  $5.0\Omega$  to  $500\Omega$ . The e.m.f. of the battery is  $12.0\text{V}$ . It has negligible internal resistance.



What is the maximum range of values of potential difference across the output?

- A 1.3V to 11.1V
- B 1.3V to 12.0V
- C 1.5V to 11.1V
- D 1.5V to 12.0V

- 35 There is a current from P to Q in the resistor network shown