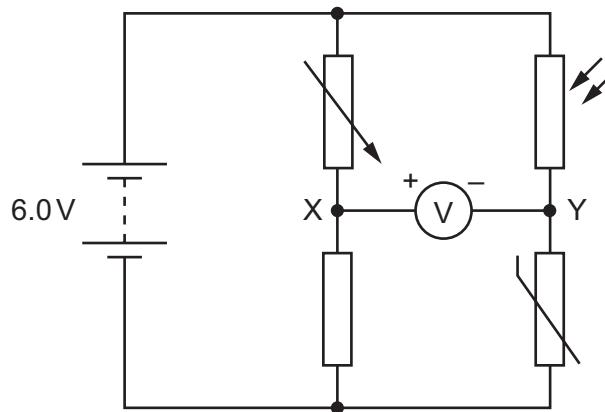


- 37 A battery of electromotive force (e.m.f.) 6.0 V and negligible internal resistance is connected to a voltmeter and four other components, as shown.

The voltmeter is connected between points X and Y. The positive terminal of the voltmeter is connected to X and the negative terminal of the voltmeter is connected to Y.



Initially, the resistance of each of the four components is  $1.0\text{ k}\Omega$ .

Which change, on its own, will cause the voltmeter to show a positive reading?

- A Decrease the temperature of the thermistor.
- B Increase the resistance of the variable resistor.
- C Reduce the intensity of light incident on the light-dependent resistor (LDR).
- D Replace the fixed resistor with a  $500\Omega$  resistor.