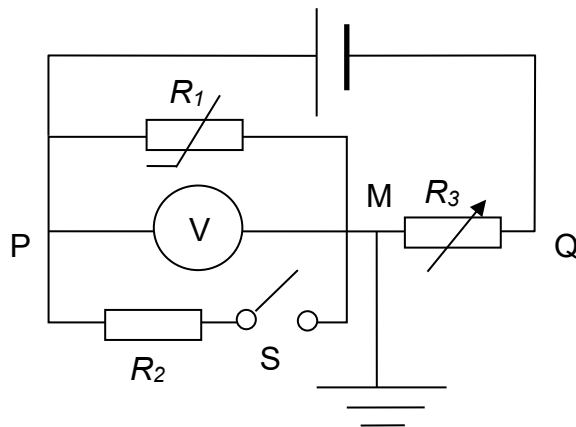


- 23** A thermistor  $R_1$  is connected to a battery of constant e.m.f. with negligible internal resistance as shown in the figure.



Which of the following actions will cause an increase in the potential difference measured by the voltmeter? Assume that the voltmeter has infinite resistance.

- A** Increase the temperature of the thermistor with  $S$  open.
- B** Remove the earth connection at  $M$  with  $S$  open.
- C** Close switch  $S$ .
- D** Decrease resistance  $R_3$  with  $S$  open.

- 24** The diagram shows a plane  $OXY$  with axes  $OX$  and  $OY$  at right angles