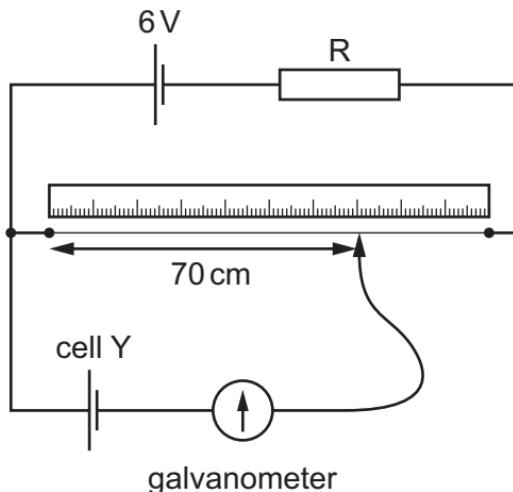
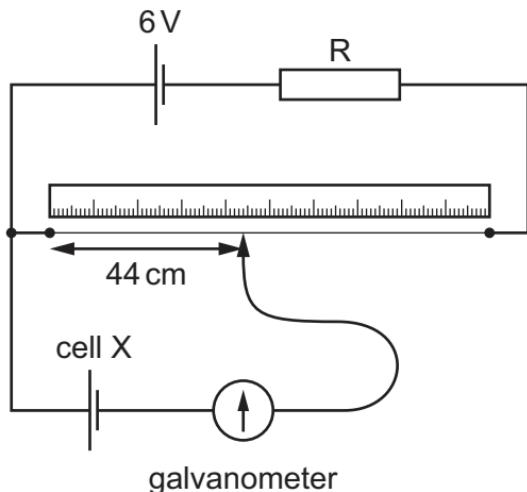


- 38 Two cells are investigated using a potentiometer. At the balance point, cell X gives a reading of 44 cm and cell Y gives a reading of 70 cm.



Which statement is **not** correct?

- A A potentiometer balance point results in zero current through the galvanometer.
- B At the balance point, the current through resistor R in both circuits is the same.
- C The electromotive force (e.m.f.) of cell X is larger than that of cell Y.
- D The value of the e.m.f. of each of the cells X and Y is less than 6V.

- 39 A proton in a nucleus undergoes β^+ decay. One of the products is a neutron.