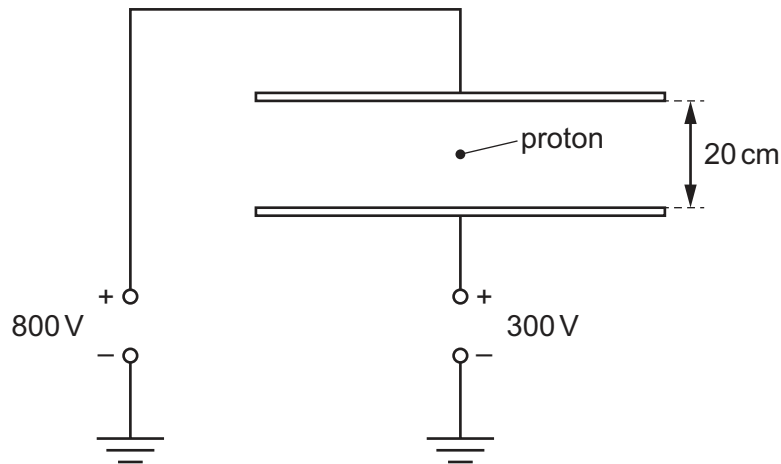


- 27 Two parallel metal plates are situated 20 cm apart in a vacuum. They are connected to two sources of potential difference as shown.



A proton is released in the space between the plates.

What is the magnitude and direction of the acceleration of the proton?

- A $2.4 \times 10^{11} \text{ m s}^{-2}$ downwards
- B $2.4 \times 10^{11} \text{ m s}^{-2}$ upwards
- C $5.3 \times 10^{11} \text{ m s}^{-2}$ downwards
- D $5.3 \times 10^{11} \text{ m s}^{-2}$ upwards

- 28 A particle having mass m and charge $+q$ enters a uniform electric field with speed v