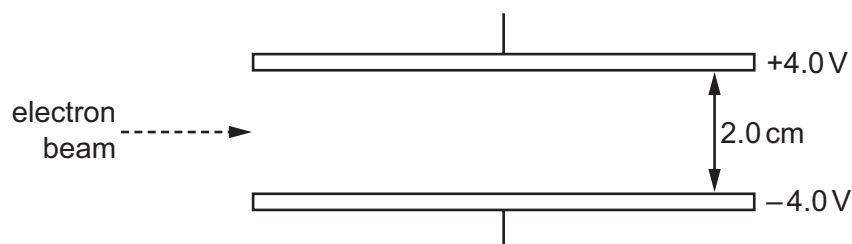


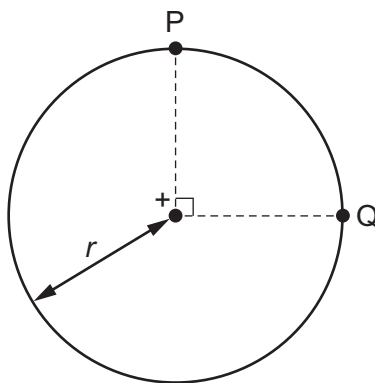
- 28 A horizontal beam of electrons is passed between two horizontal parallel plates, 2.0 cm apart, as shown.



The upper plate has an electrical potential of +4.0 V, and the lower plate has an electrical potential of -4.0 V.

What is the force on each electron when between the plates?

- A 3.2×10^{-17} N downwards
 - B 3.2×10^{-19} N upwards
 - C 6.4×10^{-19} N downwards
 - D 6.4×10^{-17} N upwards
- 29 The diagram shows two points P and Q which lie 90° apart on a circle of radius r .



Which expression gives the work done in moving a unit positive charge from P to Q?

- A 0
- B $E \times r$
- C $E \times \left(\frac{\pi r}{2}\right)$
- D $E \times (\pi r)$

Space for working