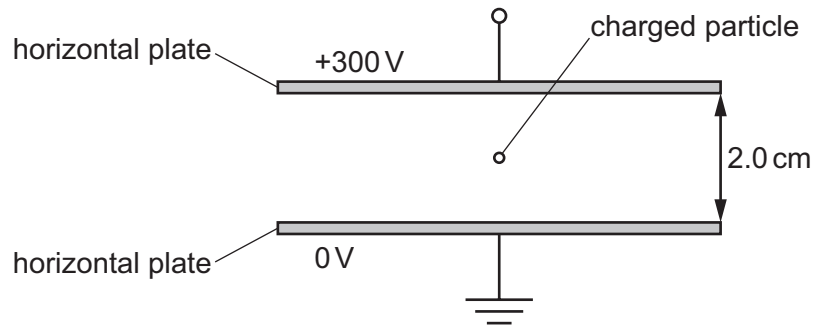


**32** A charged particle is in a vacuum between two horizontal metal plates as shown.



The acceleration of the particle is  $7.15 \times 10^{11} \text{ ms}^{-2}$  downwards. The particle has a mass of  $3.34 \times 10^{-27} \text{ kg}$ .

What is the charge on the particle?

- A**  $+1.6 \times 10^{-19} \text{ C}$
- B**  $-1.6 \times 10^{-19} \text{ C}$
- C**  $+1.6 \times 10^{-17} \text{ C}$
- D**  $-1.6 \times 10^{-17} \text{ C}$