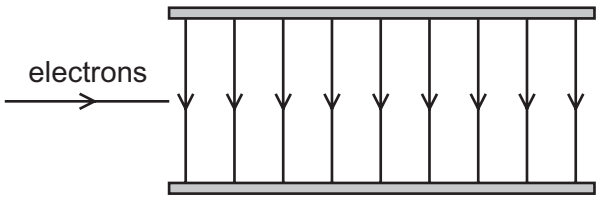
28 Electrons are accelerated and then directed into the uniform electric field between two parallel plates in a vacuum.



What best describes the shape of the path followed by the electrons in the field?

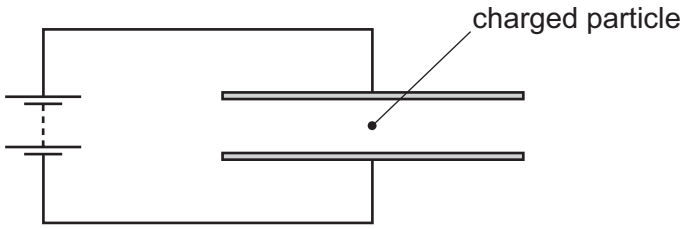
A a downwards curve along a line that is part of a circle

B a downwards curve along a line that is **not** part of a circle

C an upwards curve along a line that is part of a circle

D an upwards curve along a line that is **not** part of a circle

29 A charged particle is in the electric field between two horizontal metal plates connected to a source of constant potential difference, as shown. There is a force F on the particle due to the electric field.



The separation of the plates is doubled.

What will be the new force on the particle?

A $\frac{F}{4}$ **B** $\frac{F}{2}$ **C** F **D** $2F$

Space for working