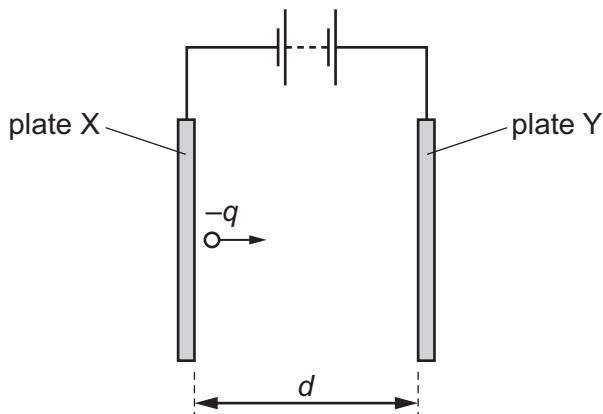


- 32 Two parallel plates X and Y are separated by a distance d in a vacuum. There is a potential difference between the plates so that a uniform electric field is produced.



A charge $-q$ moves from rest from the surface of plate X and travels towards plate Y.

When the charge reaches plate Y it has kinetic energy K .

Which expression gives the electric field strength between the plates?

A $\frac{q}{Kd}$

B $\frac{qd}{K}$

C $\frac{K}{qd}$

D $\frac{Kd}{q}$

Space for working