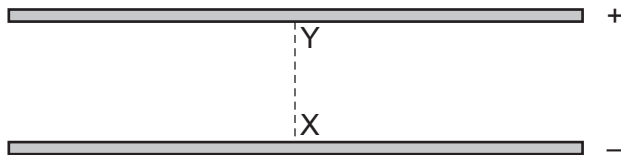
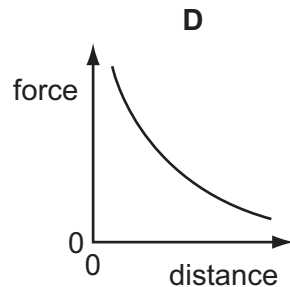
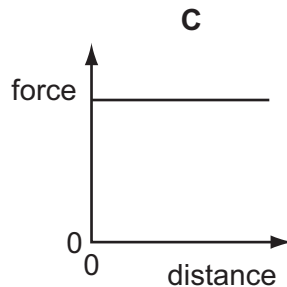
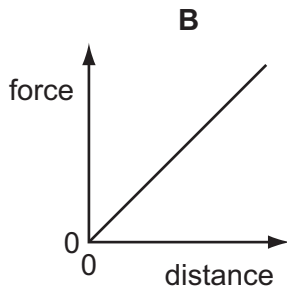
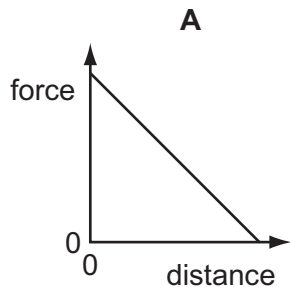


**30** Two charged parallel metal plates produce an electric field.



A charged particle moves from X to Y.

Which graph shows the variation of the force on the particle with distance from X along the line XY?



**31** A small charge  $q$  is placed in the electric field of a large charge  $Q$ .