

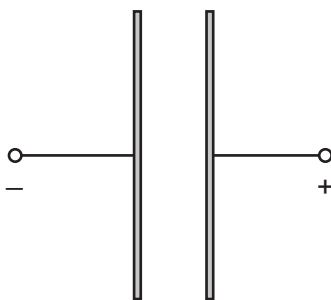
- 25 Using monochromatic light, interference fringes are produced on a screen placed a distance D from a pair of slits of separation a . The separation of the fringes is x .

Both a and D are now doubled.

What is the new fringe separation?

- A $\frac{x}{2}$ B x C $2x$ D $4x$

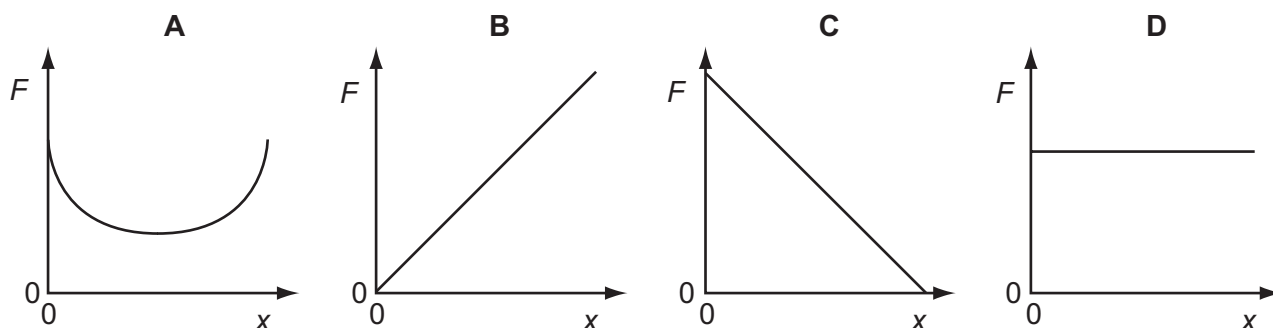
- 26 Two oppositely-charged parallel plates are arranged as shown.



An electron is released from rest from the surface of the negatively-charged plate.

The electron travels from the negatively-charged plate towards the positively-charged plate.

Which graph shows how the force F on the electron varies with its distance x from the negative plate?



Space for working