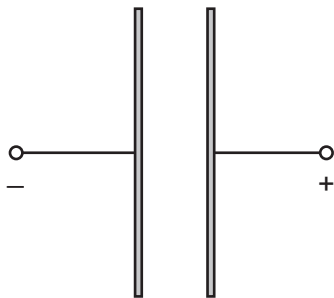


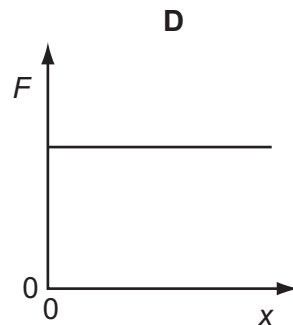
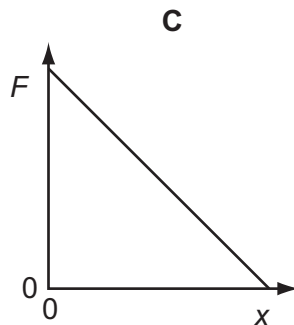
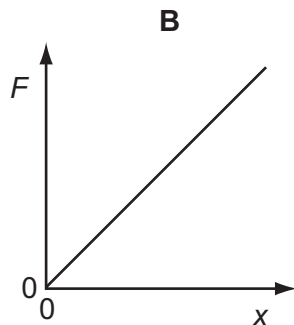
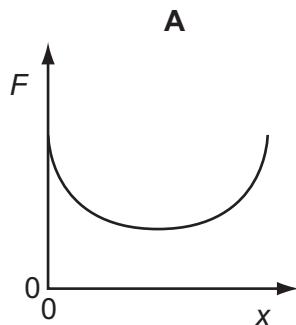
31 Two oppositely-charged parallel plates are arranged as shown.



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?



32 A power supply of electromotive force (e.m.f.) 12 V and internal resistance $2.0\text{ }\Omega$ is connected in