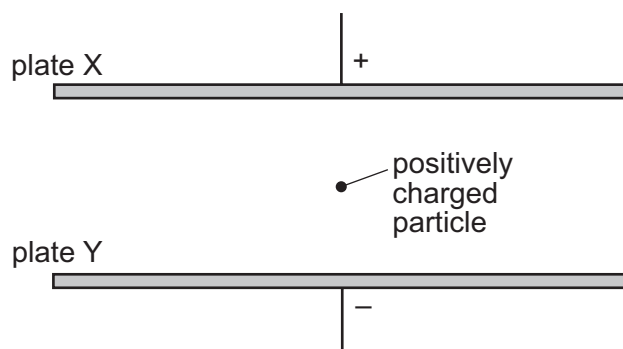


- 30** Two large parallel metal plates X and Y are situated in a vacuum as shown.



Plates X and Y carry equal and opposite charges.

What happens to the force on a positively charged particle as it moves from plate X to plate Y?

- A** It decreases because the positively charged particle is moving away from the positively charged plate.
- B** It decreases because the positively charged particle is moving in the direction of the electric field between the plates.
- C** It increases because the positively charged particle is moving closer to a negatively charged plate.
- D** It remains constant because the positively charged particle is in the uniform electric field between the plates.
- 31** Four diagrams representing the electric field between two oppositely-charged point charges are shown.

Which diagram correctly shows the electric field lines?

