

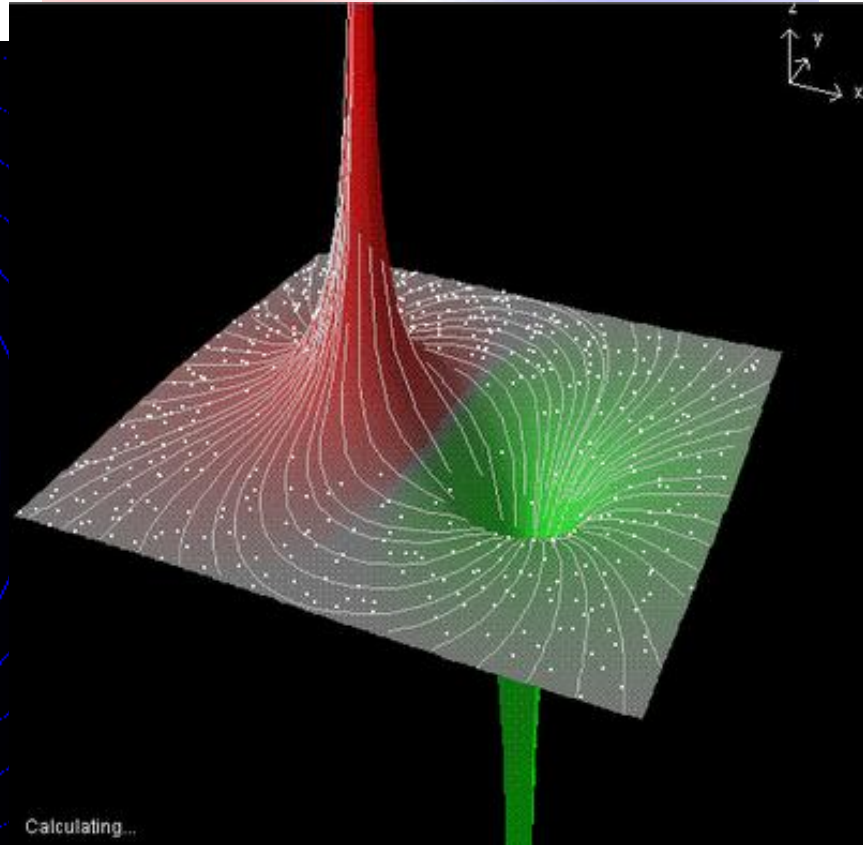
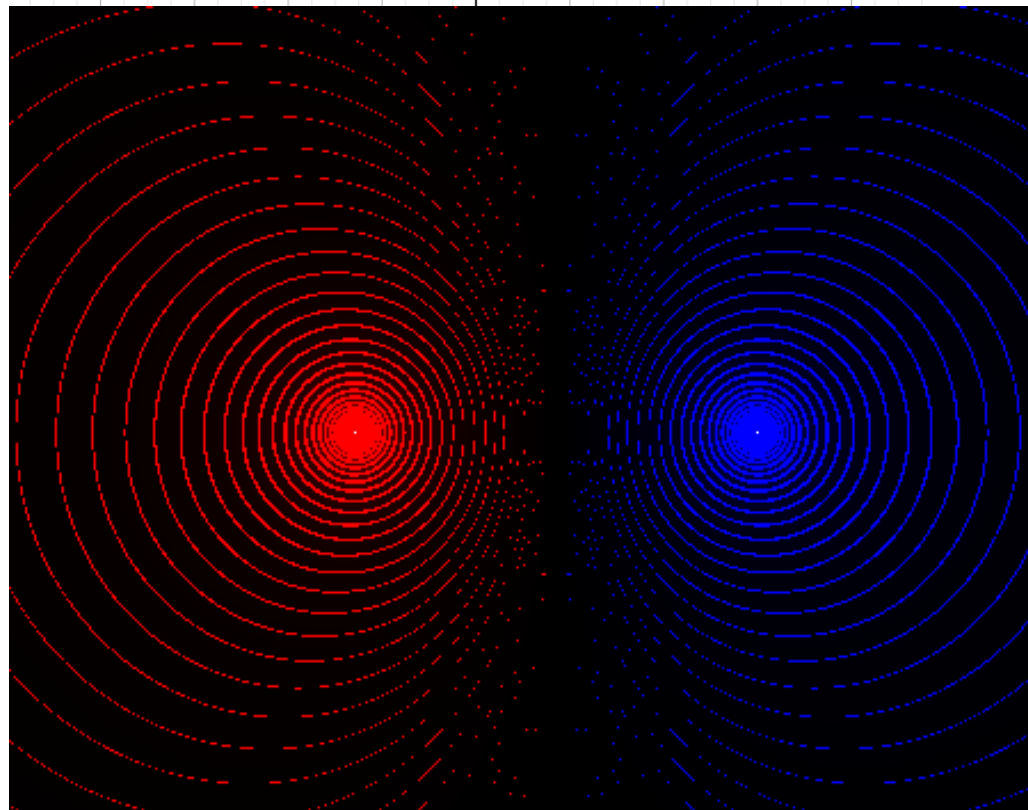
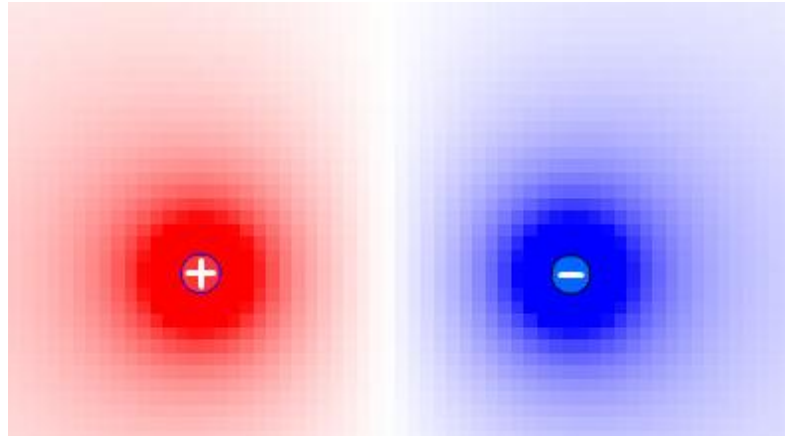
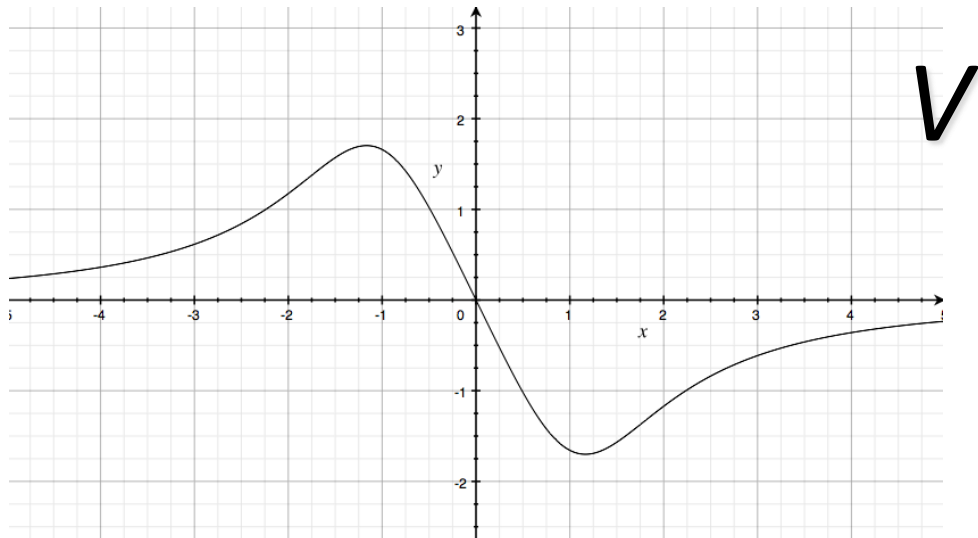
Outline

- Electric Potential
- Capacitors

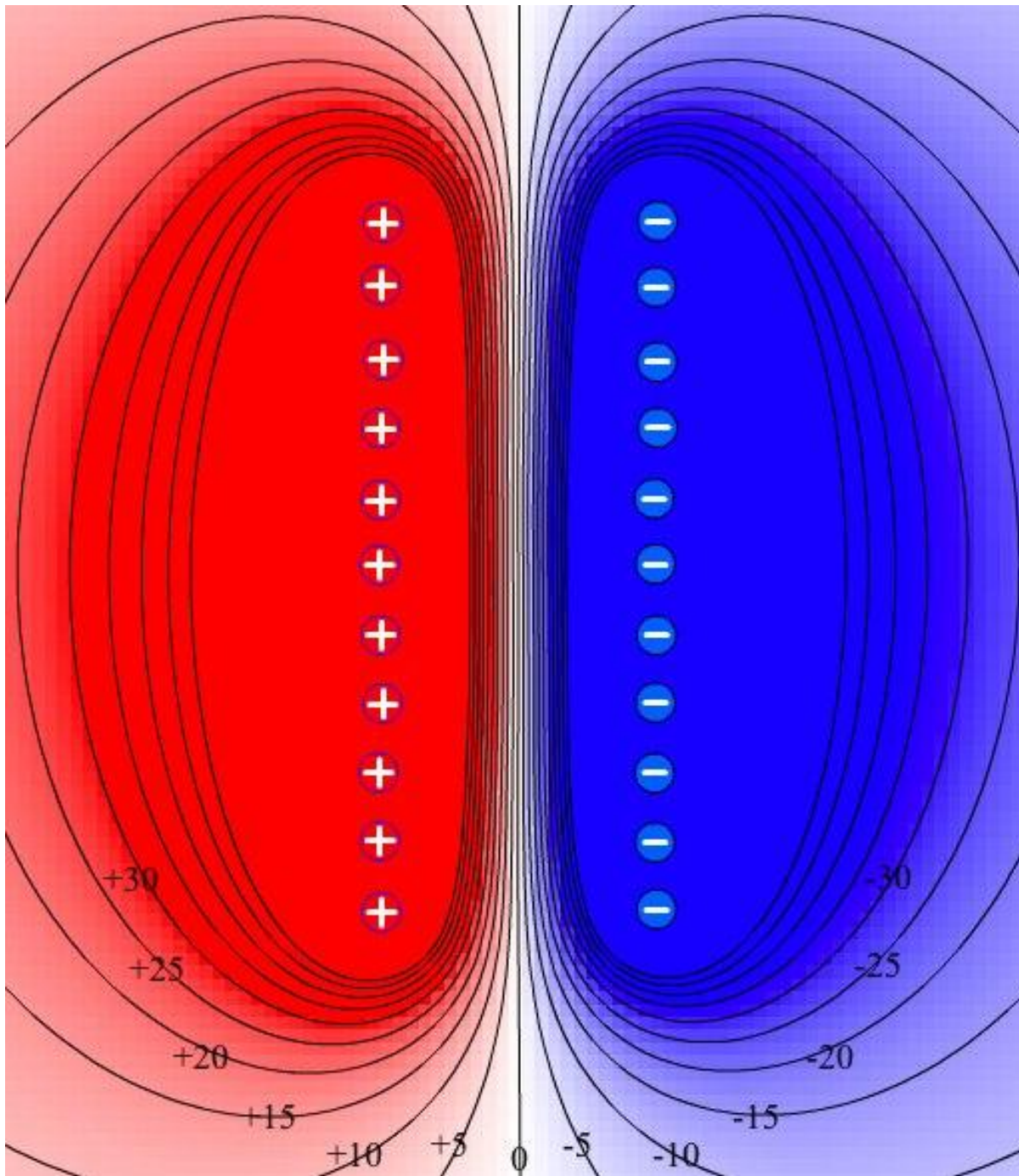
Office hours this week:

Wed 5-6.30 office hours AV Williams Rm 3341

Thu 3-4pm Course Center



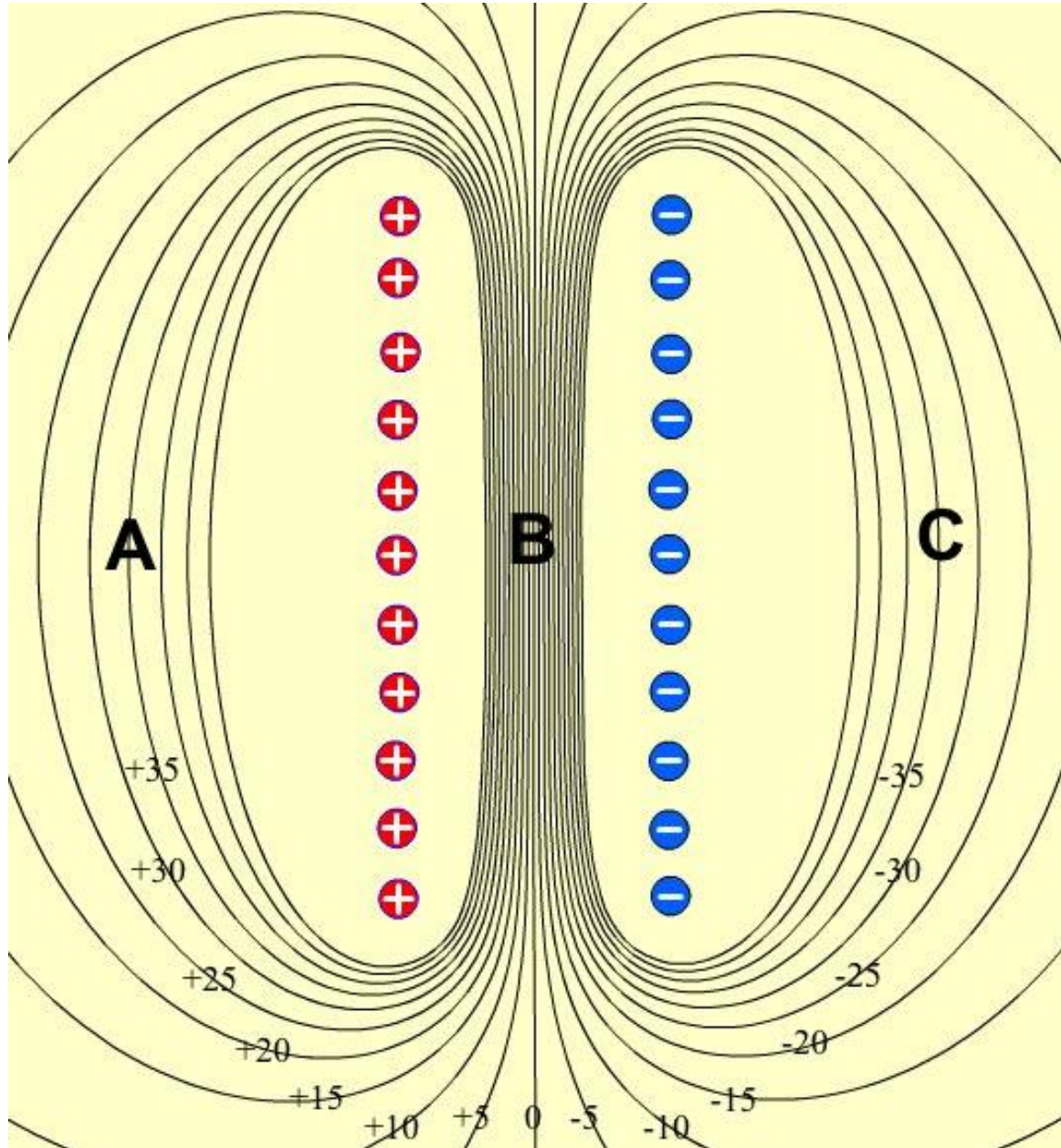
Model of PE for 2 line charges (3D)



Model of PE for 2 line charges

Where would a test charge feel the strongest electric force?

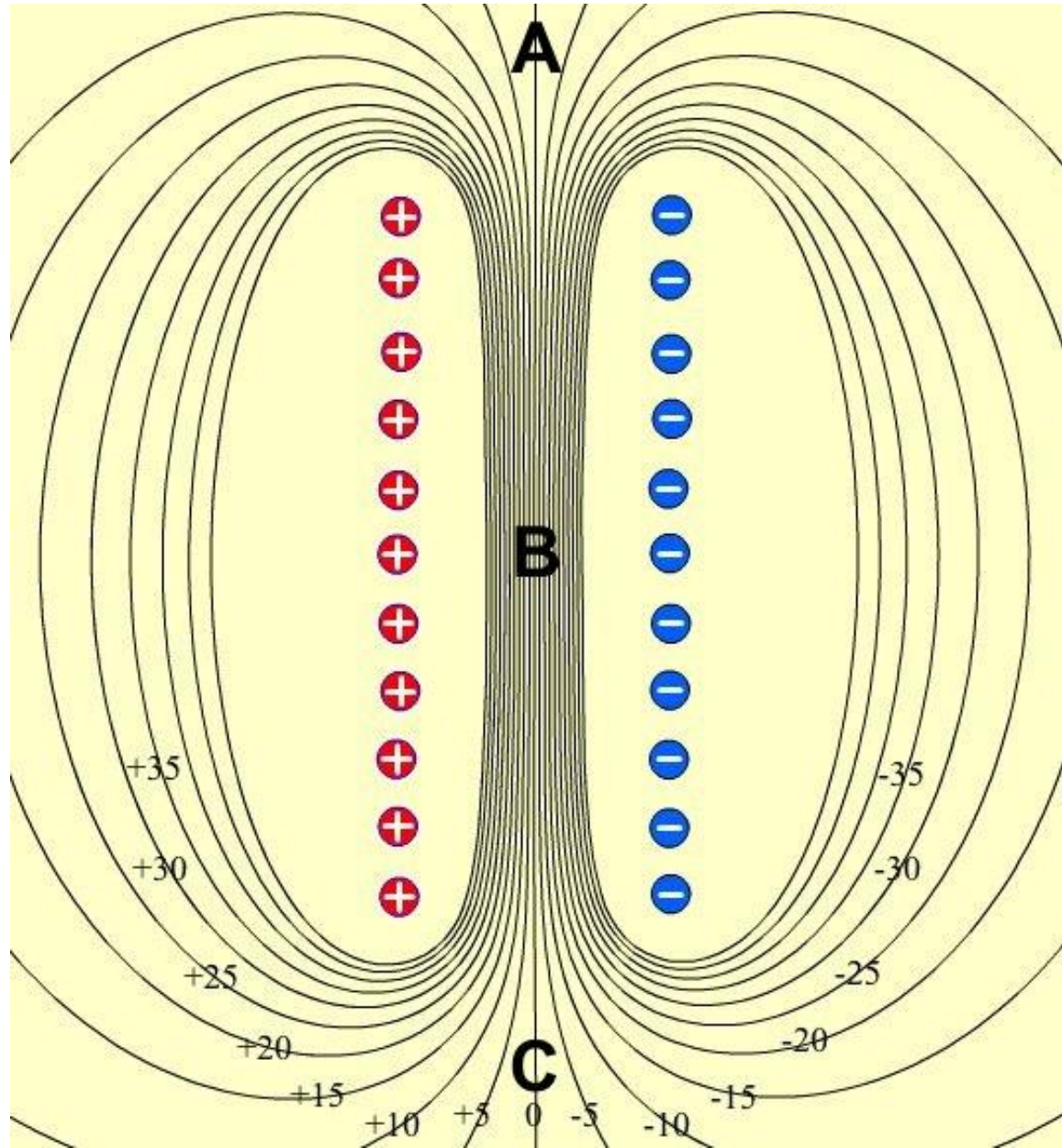
1. A
2. B
3. C
4. A and B



Model of PE for 2 line charges

Where would a test charge feel the strongest electric force?

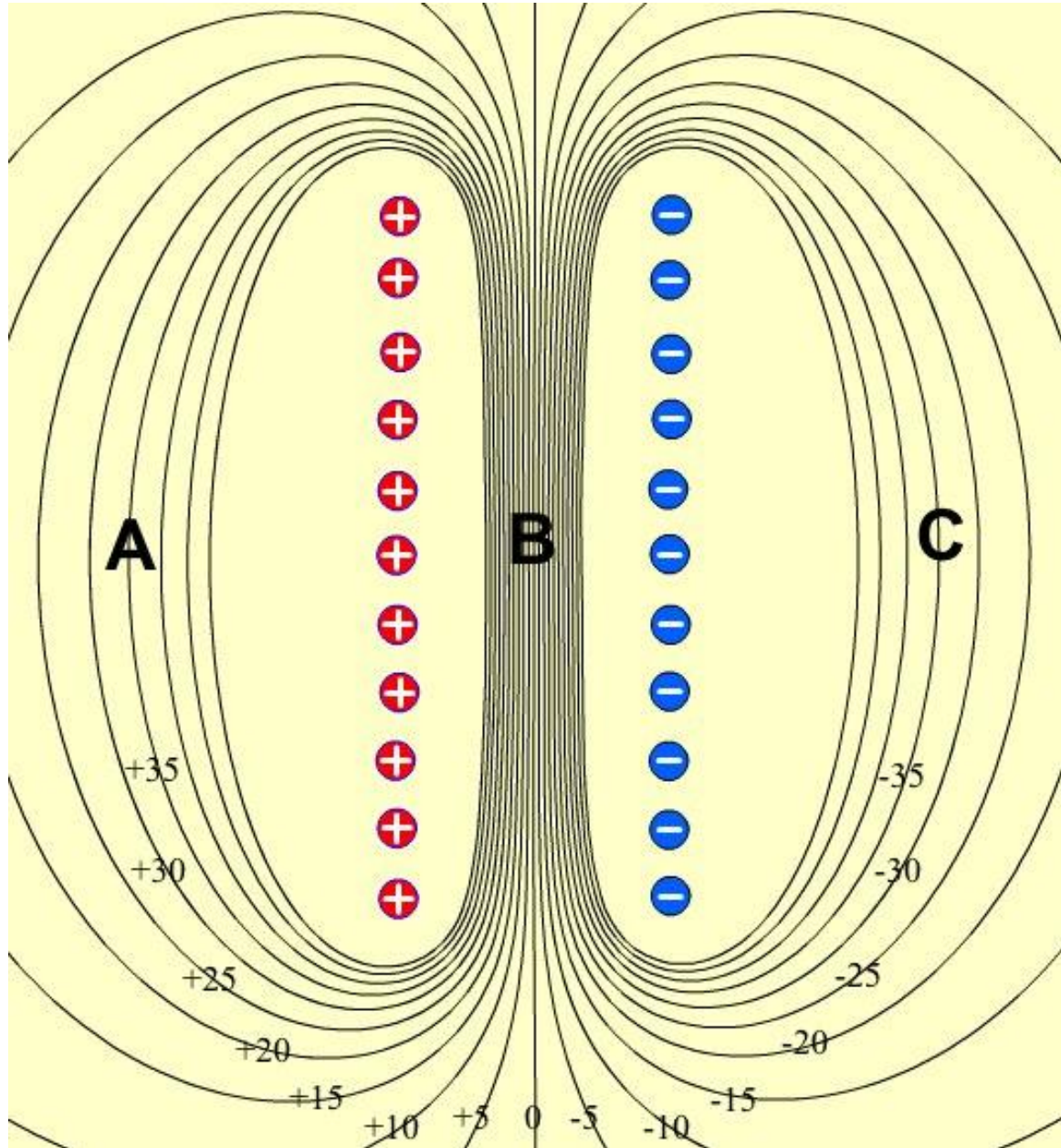
1. A
2. B
3. C
4. A and B



Model of PE for 2 line charges

Where would a test charge feel the largest electric field?

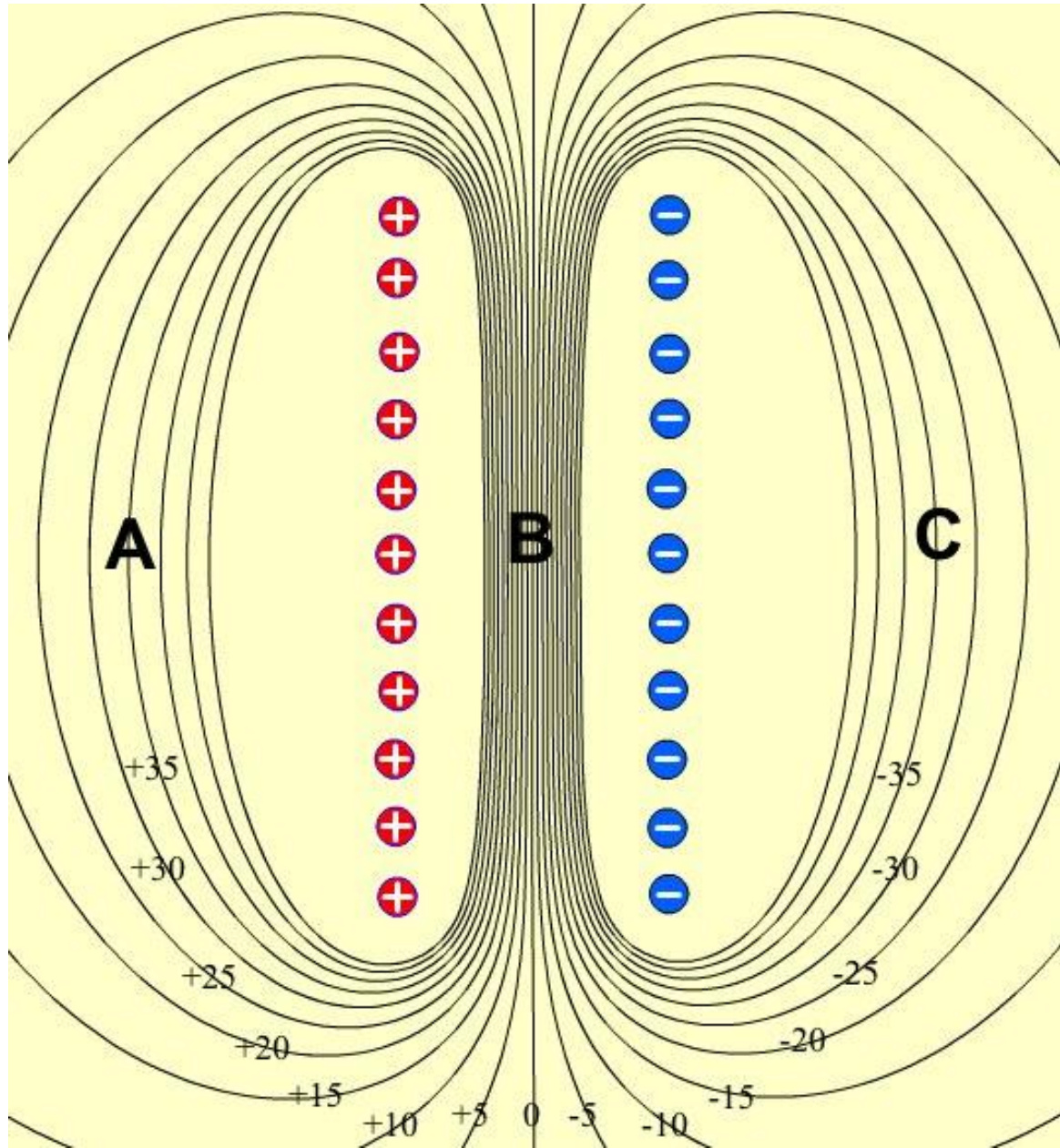
1. A
2. B
3. C
4. A and B



Model of PE for 2 line charges

Where would a test charge feel the largest potential energy?

1. A
2. B
3. C
4. A and B
5. Depends on whether the test charge is positive or negative

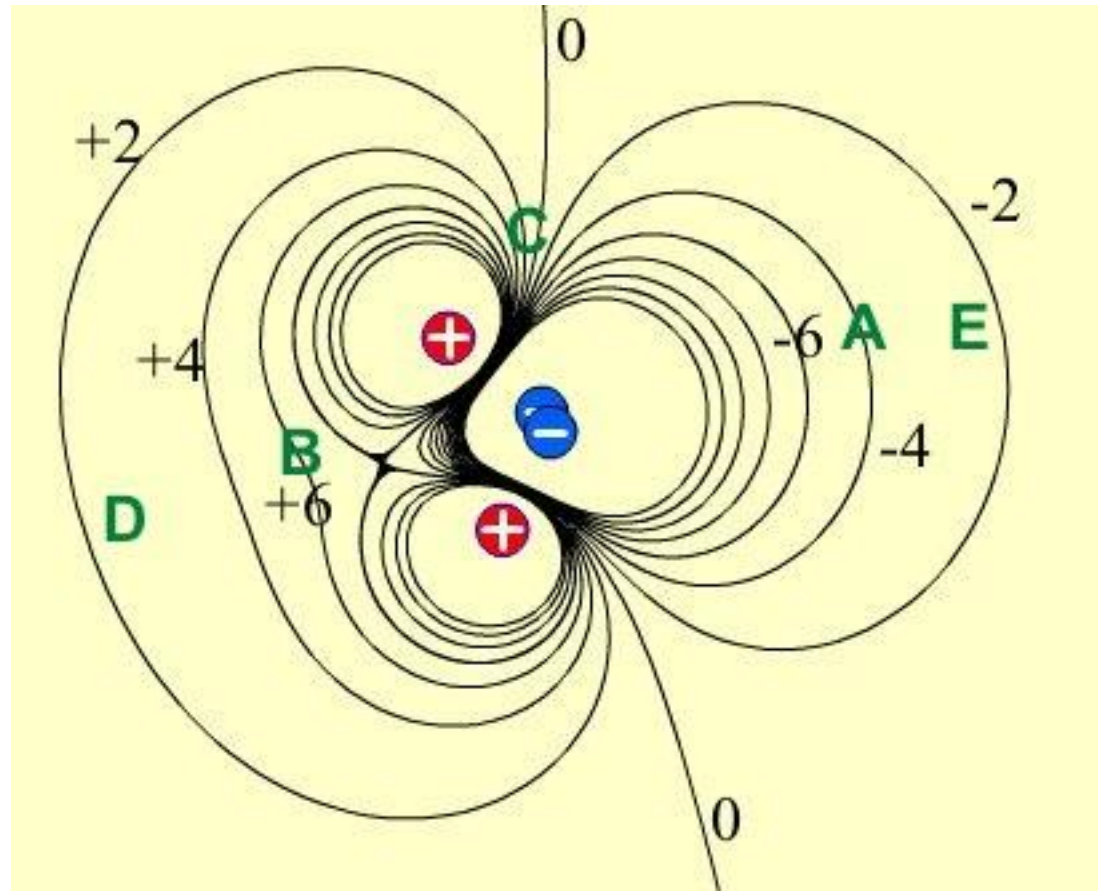


Map of electric PE for 3 charges (water molecule) (3D)



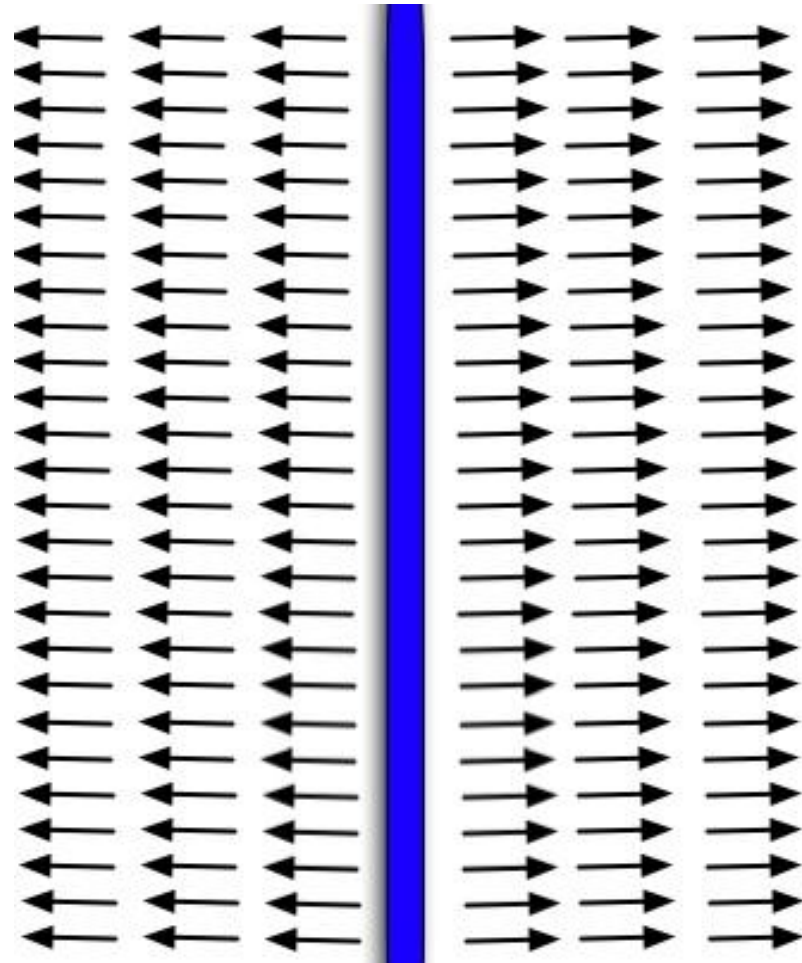
Where would a test charge
feel the strongest electric
force?

1. A
2. B
3. C
4. D
5. E
6. More than one

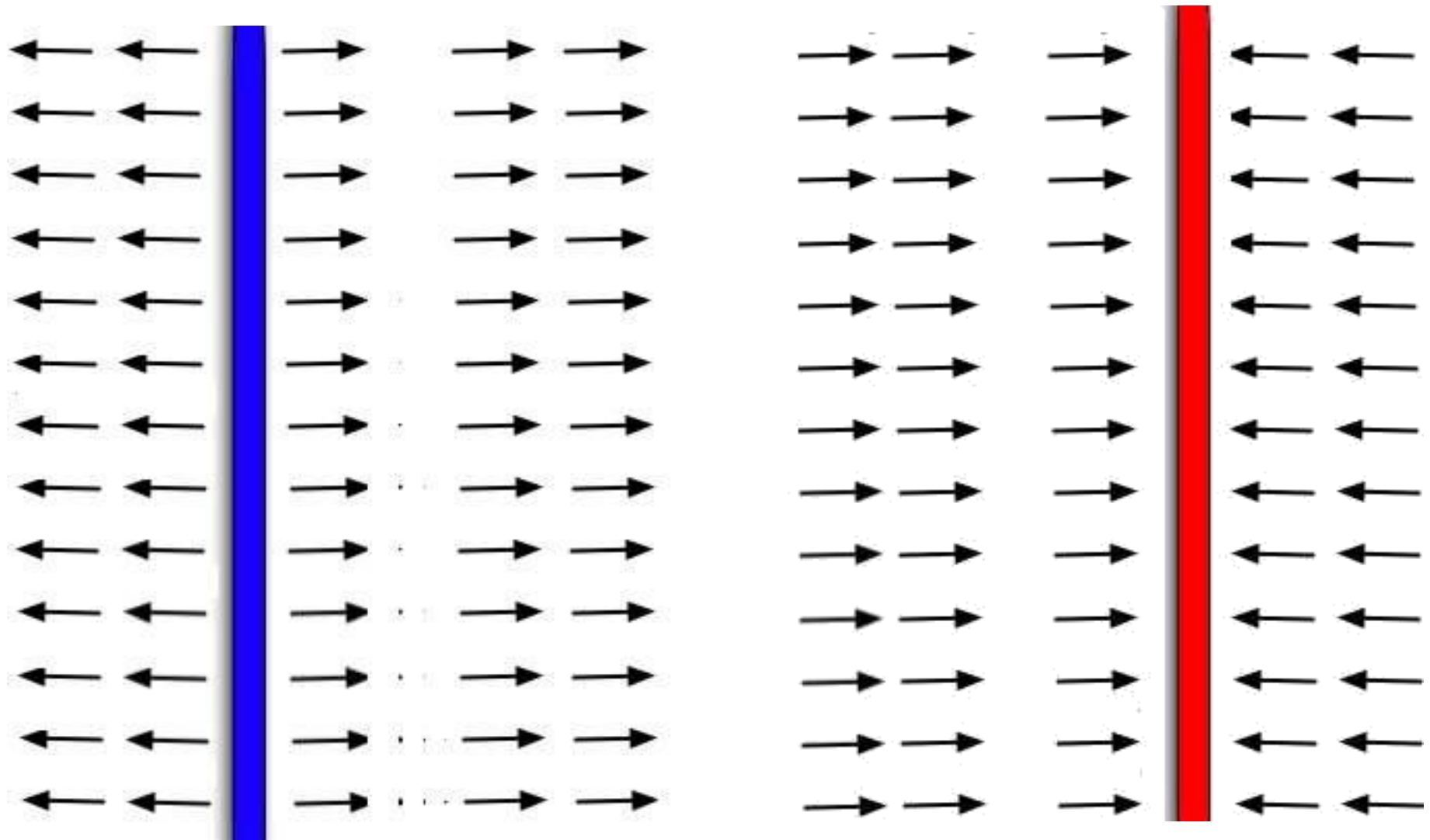


The sheet of charge

- Field is constant, pointing away from positive sheet, towards negative sheet.
- Constant!!?
How can that be?



Two sheets of charge



Two sheets of charge

