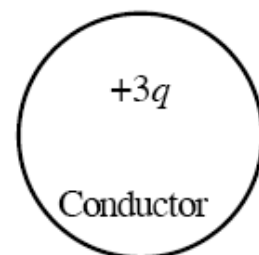
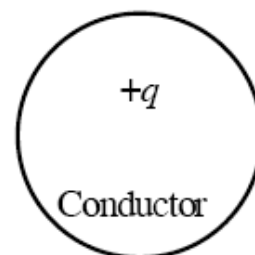


Two conducting spheres have the same radius but have different charges. Three students are discussing whether Coulomb's law applies when calculating the force one sphere exerts on the other.



Alejandro: *"Since these are spheres, they have the same symmetry as points, and Coulomb's law applies."*

Belinda: *"I agree, but only because these are positive charges. If they were negative charges they would be free to move within the spheres, and the distance would change."*

Colin: *"I disagree. Coulomb's Law only applies to point charges. Since the conducting spheres are not points, it cannot be used."*

Which of these students is correct?