PHYS 202 Coulomb’s law Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F:\PHYS202\Study Guides\sgt2CouLaw.gif Coulomb’s constant = k = 9 x 109 (SI)  
1. Figure below shows three point charges that lie along the *x* axis in a vacuum. Determine the magnitude and direction of the net electrostatic force on q1.



2. In the Bohr model of the hydrogen atom, the electron is in a circular orbit about the nuclear proton at a radius of 5.29 x 10-11 m as shown below. The mass of the electron is 9.11 x 10-31 kg. Determine the speed of the electron. [Centripetal Force =

