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1. Three point charges q1 q2 and q3 lie along the x axis at x = 0, x = 3.0 cm and x = 5.0 cm, respectively. Calculate the magnitude and direction of the electric forces on each of the three point charges when q1 = +6.0μC, q2 = +1.5 μC, q3 = -2.0 μC
2. Four charged particles are placed so each particle is at the corner of a square. The sides of the square are 15 cm. The charge at the upper left corner is +3.0 μC, the charge at the upper right corner is -6.0 μC, the charge at the lower left corner is -2.4 μC and the charge at the lower right corner is -9.0 μC,
3. What is the net electric force on the +3.0 μC charge?
4. What is the net electric force on the -6.0 μC charge?
5. What is the net electric force on the -9.0 μC charge?