Coulomb's worksheet (use sig figs)

1. What is the electrical force acting on two substances if the charge for each is 4.0×10^{-7} C and they are placed 2.0 cm apart? 2. What is the electrical force acting on two substances if the charge for each is 5.0×10^{-8} C and they are placed 1.50 cm apart? 3. The electrical force acting on 2 spheres with a charge of $5.67 \times 10^{-4} \, \text{C}$ is $6.60 \times 10^6 \,\mathrm{N}$. What is the distance of the two spheres? 4. The electrical force acting on 2 spheres with a charge of $7.6 \times 10^{-4} \text{C}$ is $5 \times 10^{3} \text{ N}$. What is the distance of the two spheres? 5. The charge of a sphere is 5.5×10^{-4} C. The electrical force of the 2 spheres is 7.00x 10³N. The distance between the 2 spheres is 6.0 cm. What is the charge of the other sphere?



