Physics 182 Summer 2020

Prelab 4: Coulomb's Law and Electric Potential

Print Name _			
Section	Date	TA	
Lab Partner			

1. A particle with a charge of +8 μ C is placed 6 cm away from a second particle with a charge of -7 μ C. Calculate the electrostatic force exerted on the second particle by the first particle. **Show formulas and calculations.**

2. Three particles with charges $q_1 = +3Q$, $q_2 = -6Q$, and $q_3 = -3Q$ are situated around the origin, with locations q_1 at (1,1), q_2 at (-1,1), and q_3 at (-1,-1). What is the value of the net electric field, \vec{E} located at the origin?