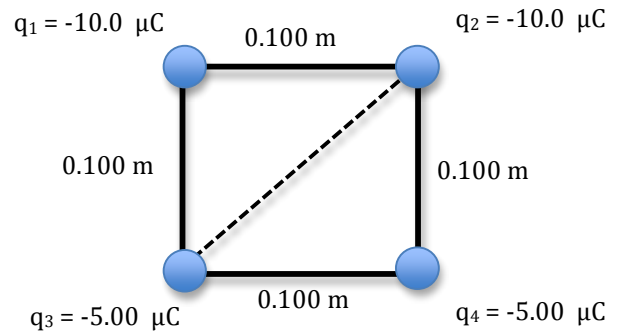


Name: _____
Class Period: _____

Physics: Electrostatics
Extra Credit

- Four charges are located at the corners of a square, each with sides measuring 0.100 m in length. The corners are all at right angles with each other. Our goal is to find the net force exerted on q_2 .
 - What is the direction and magnitude of the force from q_1 on q_2 ?
 - What is the direction and magnitude of the force from q_4 on q_2 ?
 - What is the direction and magnitude of the force from q_3 on q_2 ?
 - What is the ΣF_x and ΣF_y on q_2 ?



- A rod has a charge of $-2.00 \mu\text{C}$. How many electrons must be **removed** so that the charge becomes $+7.00 \mu\text{C}$?