

Name: _____
Class Period: _____

Honors Physics: Electrostatics
Extra Credit

1. Two charges (q_1 and q_2) are placed on opposite ends of a meter stick with charges $q_1 = 2.00 \text{ C}$ and $q_2 = 3.50 \text{ C}$. Where could an electron be placed in between these two on the meter stick such the forces of attraction between the electron and the two positive charges are in equilibrium?

2. Two small spheres have a total charge of $80.0 \mu\text{C}$ between them. When placed 1.06 m apart, the two exert a repulsive force of 12.0 N on each other. What is the charge on each of these spheres?