Quiz 1 Name: _____

ID: _____

1. Positive charges with magnitudes 3.50 mC (=3.50×10^{-3}C) and 6.75 mC are located at the origin and at the point (10.00, 0) meters on the x axis, respectively. What are the strength and direction of the field they generate at the point (0, 10.00) meters on the y axis?

2. A charge of −3.50 μC (= − 3.50×10^{-6}C) is located on the x axis at x = −4.00 m, and a second point charge of 4.00 μC is located at x = 6.00 m. Where should a third point charge of 6.00 μC be placed to make the electric field zero at the origin?