**PreQuiz 16-17.1**

**Electricity general**

Name

Favorite Punchline

**Show your work, and circle your answers and use sig figs to receive full credit.**

1. What is the electric field 34.5 cm to the right of a 12.0 μC charge?

(9.06x105 N/C to the right)

2-3: A +13.5 μC charge is 88.2 cm to the right of a +23.2 μC charge. (Draw yourself a picture)

2. What is the force on the leftmost charge? What direction is it?

(3.62 N to the left)

3.What is the electric field 32.1 cm to the right of the leftmost charge? What direction?

(1.64x106 N/C to the right)

4. What is the velocity of a proton accelerated through 3.7 Volts from rest?

(2.7x104 m/s)

5. A 5.2-gram object is suspended against gravity between two horizontal parallel plates that are 5.2 cm apart. What charge does the object have if this requires 537 V to accomplish? If the top plate is negative, is the charge positive or negative?

(4.9x10-6 C, positive)