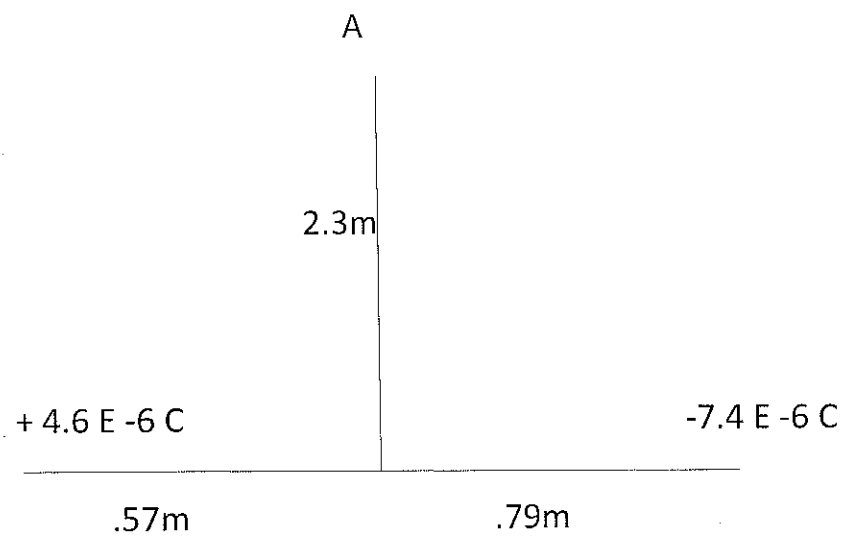


AP Physics 2:

Find the value of the Electric field at point A from the two charges.

_____ value(include units)

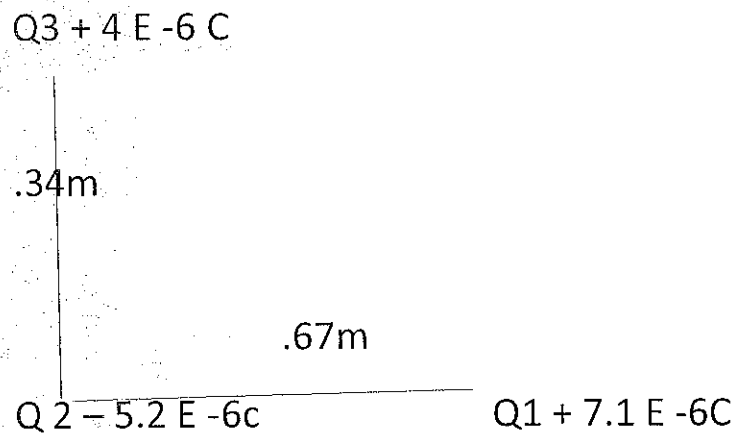
_____ direction



What is the electrical force on each due to the other two forces.

Q3 + 4 E -6 C----- .34m----- Q2 -5.2 E-6 ----- .67----- Q1(+7.1E-6)

What is the electrical force on Q 3 due to the other two forces



A .5g ball hangs from a thread in a vertical electric field of 4200N/C directed downwards. What is the charge on the ball if the tension in the thread is zero N and $2.7 \times 10^{-3}\text{N}$?

_____ C at 0 N

_____ C at $2.7 \times 10^{-3}\text{N}$

An electron in an electric field experiences a force pushing it right of $4.7 \times 10^{-9} \text{ N}$. What is the magnitude and direction of the field at this point?

_____ N/C

_____ direction

What is the magnitude of the acceleration experienced by an proton in an electric field of 870N/C ?

How does the direction of the acceleration depend upon the direction of the field at that point?

_____ m/s^2

What is the force between a charge of $+3.2 \times 10^{-4} \text{ C}$ and a charge of $-8.3 \times 10^{-3} \text{ C}$ that are 2.4 cm apart?