vPython Lab Questions Electric Field of a Proton – Physics 152

In the simulation you did in class you displayed the electric field at seven locations, all at a distance of $3 \times 10^{-}10$m. You will now change the locations of these seven electric field observations. In the simulation you turn in to the R drive you should calculate and display the electric field at the following points:

1. two distinct locations of your choice $3 \times 10^{-}10$ from the proton
2. two distinct locations of your choice $4 \times 10^{-}10$ from the proton
3. two distinct locations of your choice $4.5 \times 10^{-}10$ from the proton
4. finally one location at $3.5 \times^{-10} m$ and 20^{o} above the $z = 0$ plane.