Samuel Barnabase

Analysis for quiz 1

Things I learned comparing my solution to the posted one:

1. I only drew the electric field for charge 1 and 2 and forgot to draw the net electric field.
2. When drawing the electric fields, I should have drawn the arrows at point P instead of drawing it beneath it.
3. I need to be more careful when calculating magnitude. Unless the E_1 and E_2 are perpendicular to each other, the formula sqrt(E_1^2 + E_2^2) doesn't work. Therefore, I need to find the x and y components of each electric field and then calculate the total magnitude.
4. When calculating the E_x component for each electric field, the angle given to us should be split into two so that we can use pythagoras theorem to find the E_x.