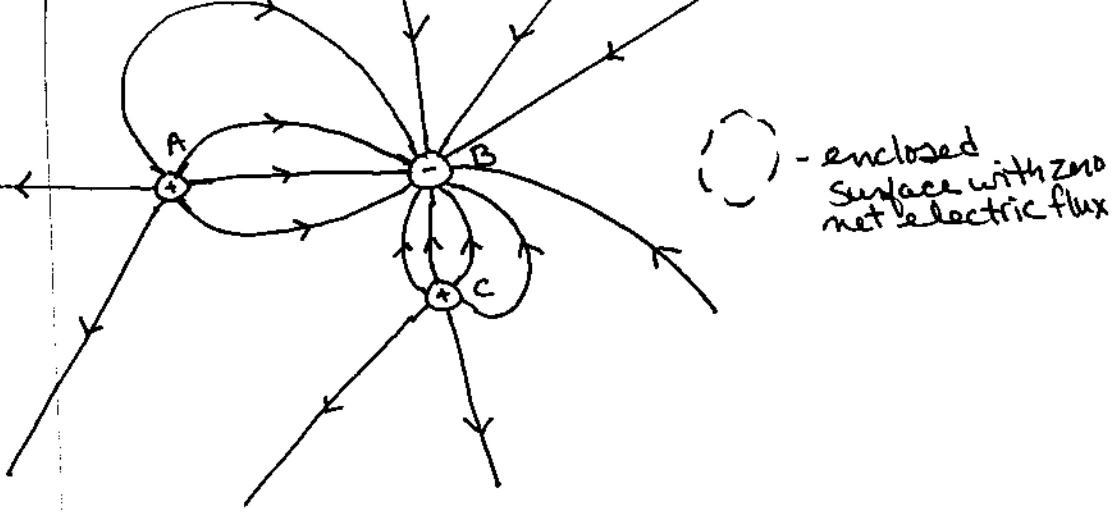


$$E_{(0,0)\ \text{due to } A} = \frac{(9\times10^{9})(2\times10^{-6})}{(.03)^2} = 2\times10^{7}\ \text{N/C} \quad (\text{negative } y)$$

$$E_{(0,0)\ \text{due to } C} = \frac{(9\times10^{9})(2\times10^{-6})}{(.04)^2} = 1.125\times10^{7}\ \text{N/C} \quad (\text{negative } x)$$

$$E_{(0,0)\ \text{due to } B} = \frac{(9\times10^{9})(4\times10^{-6})}{(.05)^2} = 1.44\times10^{7}\ \text{N/C}$$

$\downarrow$

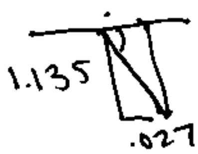
break into x + y components

$$1.152\times10^{7}\ \text{N/C}\ \hat{x} + .865\times10^{7}\ \text{N/C}\ \hat{y}$$

$$E_{net} = (1.152\times10^{7} - 1.125\times10^{7})\hat{x} + (.865\times10^{7} - 2\times10^{7})y$$

$$E_{net} = .027\times10^{7}\hat{x} - 1.135\times10^{7}\hat{y} \qquad \tan^{-1}\left(\frac{1.135}{.027}\right) = 88.6^\circ$$

1.1353×10^{7} N/C



below pos. x axis