

Calculate the net electric field and potential (voltage) at the origin due to the two charges shown.

Step 1: Calculate the individual  $E_s$ .

So, net  $E$  is in the 2nd Q



$$E = \frac{k(6\mu C)}{3\text{mm}^2} = 6 \times 10^9 \frac{N}{C} \left[ \frac{V}{m} \right]$$

$9 \times 10^9 \times 10^{-6} \times 10^{-3}$

Not neg because vectors have + mag.

$$E = \frac{k(12\mu C)}{(4\text{mm})^2} = 6.75 \times 10^9 \frac{N}{C}$$

Step 2: Use the individual  $E_s$  to calculate net  $E$ .

$$E_{\text{net}}^2 = E_{6\mu C}^2 + E_{12\mu C}^2$$

$$E = \sqrt{6^2 + 6.75^2}$$

(can ignore the powers since they are both  $\times 10^9$ .)

$$\vec{E}_{\text{net}} = 9 \times 10^9 \frac{N}{C} \left[ \frac{V}{m} \right]$$

Find direction using inv tan.

$$\theta = \tan^{-1}\left(\frac{y}{x}\right) = \tan^{-1}\left(\frac{-6}{-6.75}\right)$$

$$= -41.6^\circ \text{ (No - supposed to be 2nd Q)} \\ +180^\circ = 138.4^\circ$$

Then, a -3 microC charge is moved from infinity to the origin. Calculate the net  $F$  and PE at the origin.

$$F = [N]$$

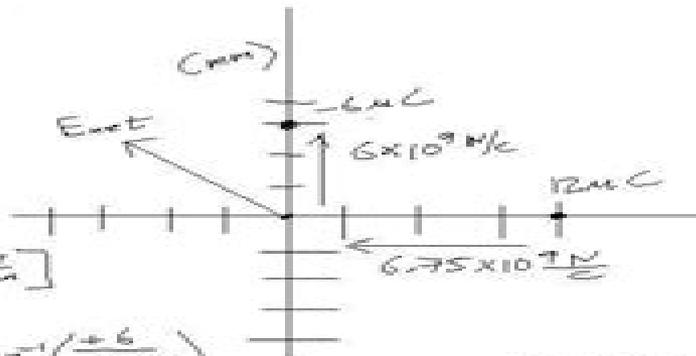
$$E = [N/C]$$

$$F = qE$$

$$F = 3\mu C (9 \times 10^9 \frac{N}{C})$$

$$= 2.7 \times 10^4 N \text{ at } -41.6^\circ$$

You get the same # if you mult  $qE$  for each individual  $E$  and then use Pyth theorem for Net  $F$ .



Step 3 - calculate individual voltages (potentials).

$$V = \frac{kq}{r} \text{ or } = Er$$

$$V = 6 \times 10^9 (3\text{mm}) = -1.8 \times 10^7 \frac{J}{C}$$

but have to add the neg. Remember: neg  $q$ 's have neg  $V$ 's.

$$V = 6.75 \times 10^9 (4\text{mm}) \\ = 2.7 \times 10^7 \frac{J}{C} \\ +q\text{'s have } +V\text{'s.}$$

Step 4 - Calculate Net Potential

Scalars so  $\Sigma V = V_1 + V_2 \dots$

$$= 2.7 \times 10^7 - 1.8 \times 10^7 = .9 \times 10^7 \frac{J}{C}$$

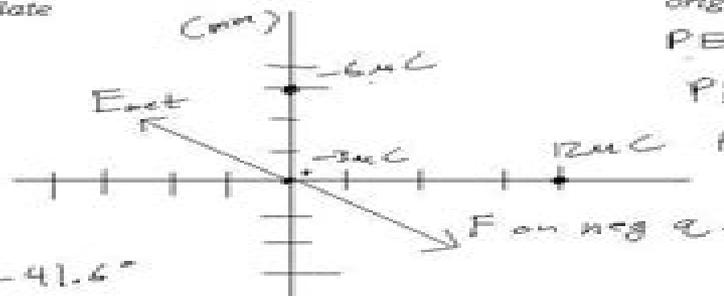
Now calculate the PE of the  $q$  at the origin.

$$PE = [J] = qV$$

$$PE_{\text{net}} = -3\mu C (9 \times 10^4)$$

$$PE_{\text{net}} = -27 J$$

Could also calculate individual PEs and add them up. This total PE means it took -27J of work to move the -3 $\mu C$  charge to that point (had to hold it back) AND it would have -27J of KE if released.



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