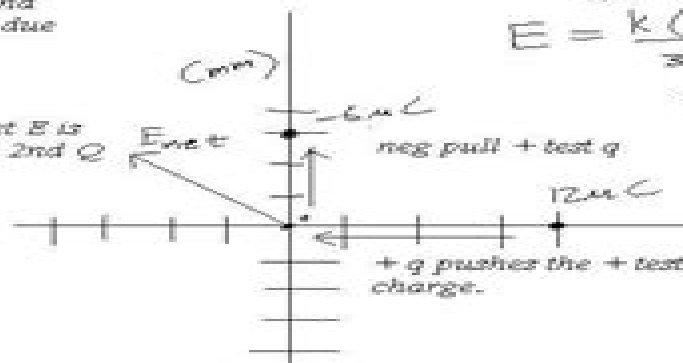


Calculate the net electric field and potential (voltage) at the origin due to the two charges shown.

Step 1: Calculate the individual E s.

So, net E is in the 2nd Q



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

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 .

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

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

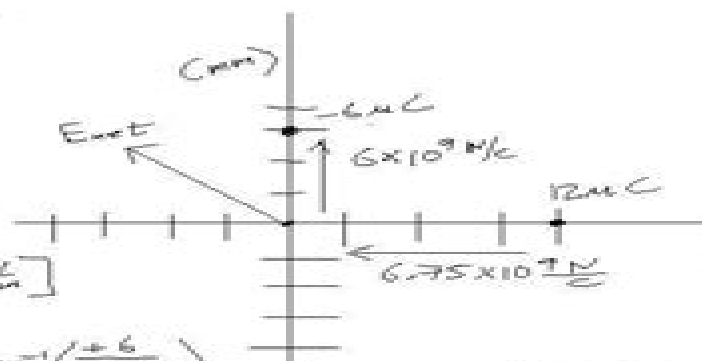
(can ignore the powers since they are both $\times 10^9$.)

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

Find direction using inv tan.

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

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



Step 3 - calculate individual voltages (potentials).

$$V = \frac{kq}{r} \text{ or } = E \cdot r$$

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

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

$$V = \frac{E \cdot r}{1} = 6.75 \times 10^9 (4 \text{ mm}) \\ = 2.7 \times 10^7 \frac{J}{C} \\ +q\text{'s have } +V\text{'s.}$$

Step 4 - Calculate Net Potential

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

$$= 2.7 \times 10^7 - 1.8 \times 10^7 = .9 \times 10^7 \frac{J}{C} \\ 9 \times 10^6 \frac{J}{C}$$

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

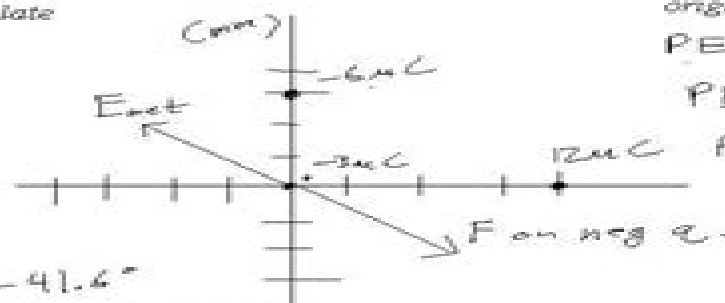
$$F = [N]$$

$$E = [N/C]$$

$$F = qE$$

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

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



Now calculate the PE of the q at the origin.

$$PE = [J] = qV$$

$$PE_{\text{net}} = -3 \mu C (9 \times 10^6)$$

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

Could also calculate individual PE s 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.

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

Light And Color Answers Stephen Murray

Joacim Rocklöv



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