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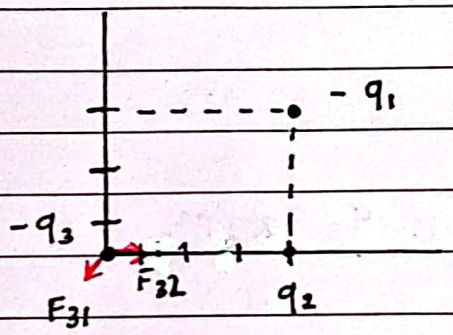
$F_{13} = k \frac{q_1 q_3}{3^2} (-\hat{j})$ → asalnya dr $\frac{(0\hat{i} - 3\hat{j})}{\sqrt{0^2+3^2}}$

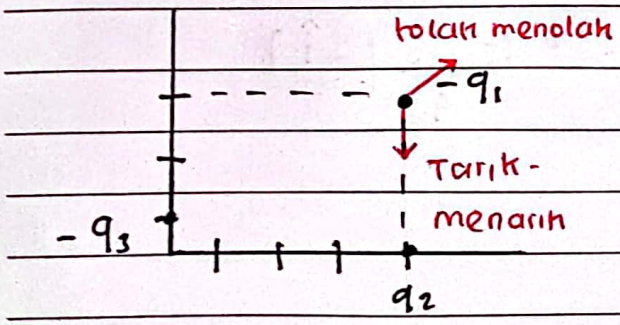
$F_{12} = k \frac{q_1 q_2}{5^2} \left(\frac{-4\hat{i} + 3\hat{j}}{5} \right)$

Menggambar Gaya 18 - 03 - 2024



$\vec{F}_{31} = \frac{1}{4\pi\epsilon_0} \frac{q_3 q_1}{5^2} \left(\frac{-4\hat{i} - 8\hat{j}}{5^2} \right)$

$\vec{F}_{32} = \frac{1}{4\pi\epsilon_0} \frac{q_3 q_2}{4^2} \hat{i}$



$\vec{F}_{12} = k \frac{q_1 \cdot q_2}{3^2} \left(\frac{0\hat{i} + 8\hat{j}}{8} \right)$

$= k \frac{q_1 q_2}{3^2} \hat{j}$

$\vec{F}_{13} = k \frac{q_1 q_3}{5^2} \left(\frac{4\hat{i} + 3\hat{j}}{5} \right)$

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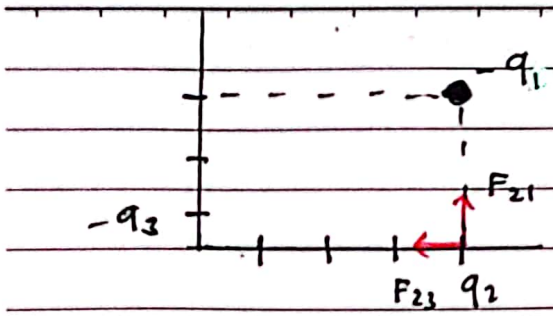


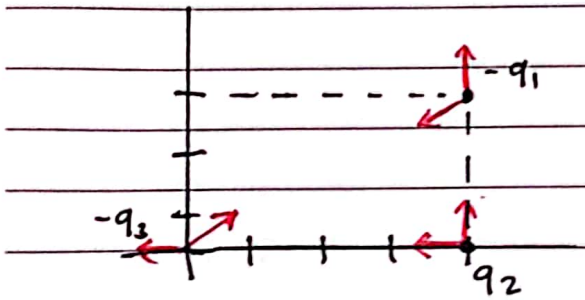
$$\vec{F}_{21} = k \frac{q_2 q_1}{3^2} \hat{j}$$

$$F_{23} = k \frac{q_2 q_3}{4^2} -\hat{i}$$

Medan

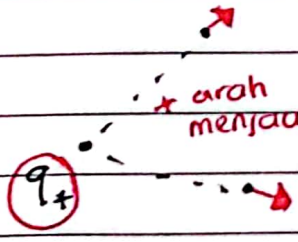
medan

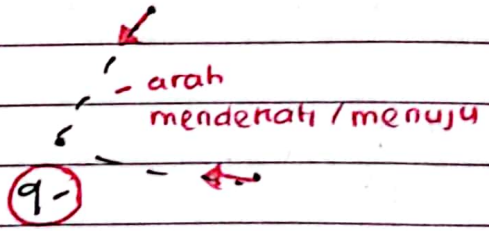
$$E = \frac{F}{q}$$



$$\vec{E}_3 = \frac{F}{q_3} = k \frac{q_3 q_2 / r^2}{q_3}$$

$$= k \frac{q_2}{r^2}$$





$$\vec{E}_{31} = k \frac{q}{5^2} \left(\frac{4\hat{i} + 3\hat{j}}{5} \right)$$

$$\vec{E}_{32} = k \frac{q_2}{4^2} (-\hat{i})$$

Muatan non

1) $E = k \frac{q}{r^2} \hat{r}$

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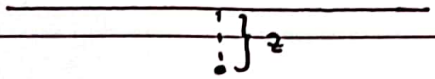
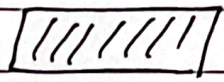
$$= k \sum_{i=1}^{n} \frac{q_i}{r_i^2} \hat{r}_0$$

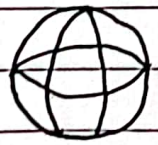
$$= k \sum_{i=1}^{n} \left[\frac{q_1}{r_1^2} \hat{r}_{0i} + \frac{q_2}{r_2^2} \hat{r}_{02} + \cdots + \frac{q_n}{r_n^2} \hat{r}_{0n} \right]$$

2) 

$$\bar{E} = k \int \frac{dq}{r^2} \hat{r}_0 = k \int \frac{\alpha \, dx}{r^2} \hat{r}_0$$ → medan pd kawat lurus

3) 

$$\bar{E} = k \iint \frac{\sigma \, dq}{r^2} \hat{r}_0$$ → luas

4) 

$$\bar{E} = k \iiint \frac{\rho \, d\tau}{r^2} \hat{r}_0$$ → volume

$\vec{E} = ( ) \, q_1$

$\bar{E} = \int ( ) \, \lambda \, dl$

$\bar{E} \int \int$ ↓ $\frac{1}{4\pi\epsilon_0}$