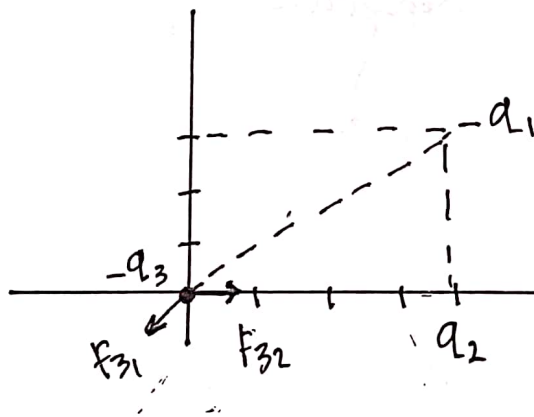
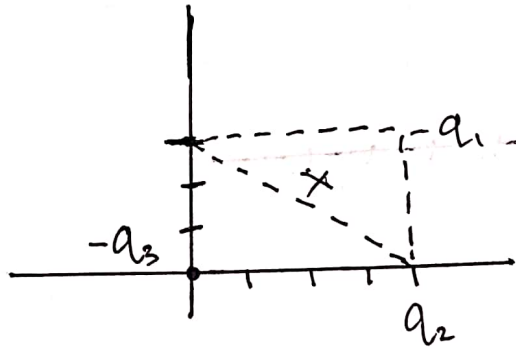


Kalisma

18/24
3



$$f_{31} = \frac{1}{4\pi\epsilon} \frac{q_3 q_1}{5^2} \left(\frac{-4i - 3j}{5} \right)$$

$$f_{32} = \frac{1}{4\pi\epsilon} \frac{q_3 q_2}{5^2}$$

$$f_{33} = \frac{q_1 q_3}{5^2}$$

$$F_{21} = K \frac{q_2 q_1}{3^2} \hat{j}$$

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

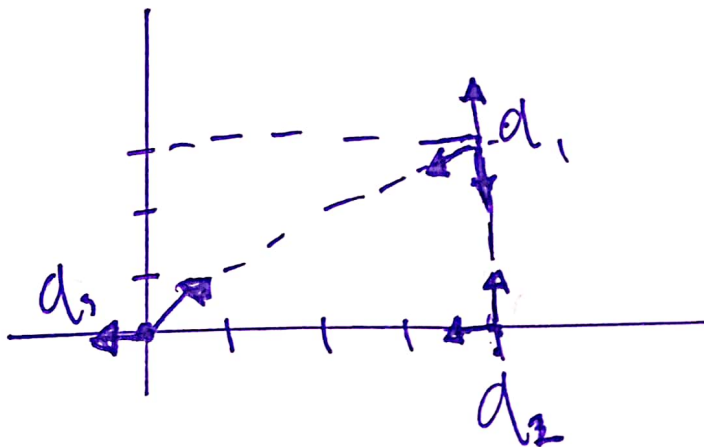
$$F_{12} = K \frac{q_1 q_2}{3^2} \left(\frac{0\hat{i} + 3\hat{j}}{3} \right)$$

$$F_{13} = K \frac{q_1 q_3}{5^2} \left(\frac{4\hat{i} + 3\hat{j}}{5} \right)$$

Medan magnet

Kalau mencari gaya ada
 —||— medan / ada.

Kalau negatif menurut
 —||— + Mengarah. — +



$$E_{32} = \frac{f}{q_3} = K \frac{q_3 q_2}{q_3}$$

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

$$E_{31} = K \frac{q}{s^2} \left(\frac{4i + 3j}{5} \right)$$

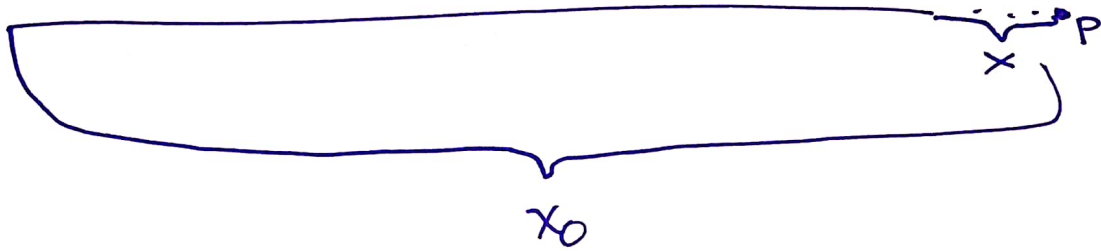
$$E_{32} = K \frac{q_2}{r^2} (-i)$$

Muatan Non Distrib.

$$E = K \frac{q}{r^2} \rho$$

$$= K \sum_{i=1}^n \frac{q_i \hat{r}_{oi}}{r_i^2}$$

$$= K \left[\sum_{i=1}^n \right]$$



$$E_p = ?$$

$$\vec{E} = k \int \frac{x dx}{(x_0 - x)^2} = kx \int \frac{dx}{(x_0 - x)^2}$$

$$\int \frac{dx}{x^2} = \int_0^1 x^{-2} dx$$

$$= x^{-1} \Big|_0^1$$

$$= \frac{1}{x} \Big|_0^1$$

$$E = k \int \frac{dq}{r^2} \hat{r}_0 \leftarrow k \int \frac{x dx}{r^2} \hat{r}_0$$

$$\hat{E} = k \int_0^L \frac{x dx}{(x_0 - x)^2} = k \lambda \int_0^L \frac{dx}{(x_0 - x)^2}$$

$$= k \lambda \int_0^L (x_0 - x)^{-2} dx$$

$$= k \lambda \left[\frac{1}{(x_0 - x)} \right]_0^L$$

$$= k \lambda \left[\frac{1}{(x_0 - x)} - \frac{1}{(x_0 - L)} \right]$$

$$= k \lambda \left[\frac{x_0 - (x_0 - L)}{x_0 (x_0 - L)} \right] = \frac{L}{x_0 (x_0 - L)}$$

