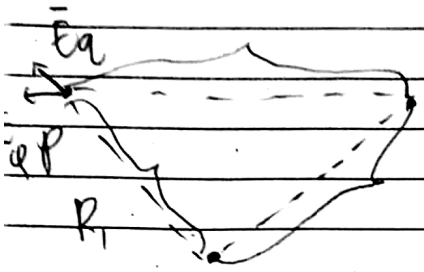
Kelistrikan dan Kemagnetan

No 17 - 01 - 2024
Date Senin

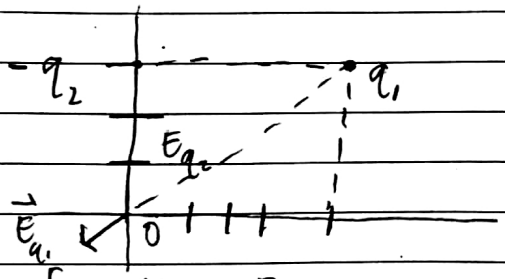
Simushodai = Bergerak terus.
medan = Mempengaruhi muatan lain



$$\vec{E} = \frac{F}{q} = k\frac{q}{p^2}$$

$$\vec{E}_p = \vec{E}_q + \vec{E}_q$$

$$= k\left[\frac{q}{r^2}\right.$$

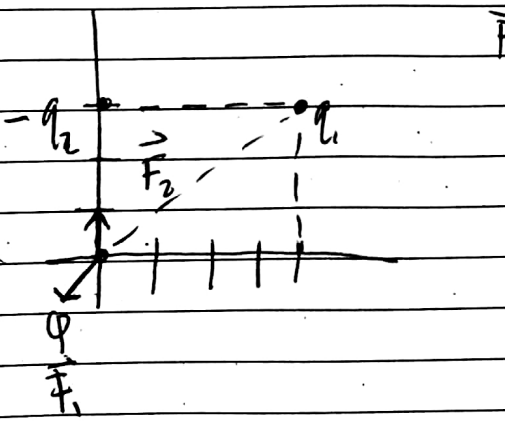


$$\vec{E}_{(0)} = k\left[\frac{q_2}{3^2}(\hat{j}) + \frac{q_1}{5^2}\left(\frac{-4\hat{i}-3\hat{j}}{5}\right)\right.$$

$$= k\left[-4\frac{q_1}{125}\hat{i} + \frac{q_2}{9} - \frac{3q}{125}\hat{j}\right]$$

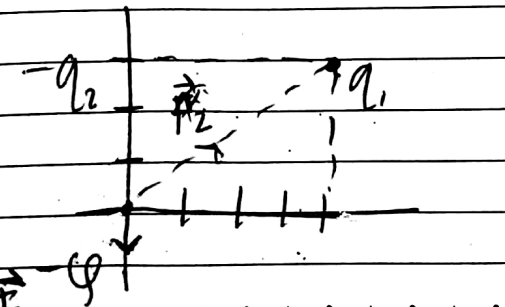
E di titik O

$|\vec{E}| =$



$$\vec{F} = \vec{F}_1 + \vec{F}_2$$

$$= kq\left[\frac{q_2}{3^2}(\hat{j}) + \frac{q_1}{5^2}\left(\frac{-4\hat{i}-3\hat{j}}{5}\right)\right.$$



$$\vec{F}_q = kq\left[\frac{q_2}{3^2}(-\hat{j}) + \frac{q_1}{5^2}\left(\frac{4\hat{i}-3\hat{j}}{5}\right)\right.$$

KENKO 36 Lines, 6 mm

F_1 = gaya yang ditimbulkan oleh q_2 F_2 = gaya yg ditimbulkan oleh q_1.