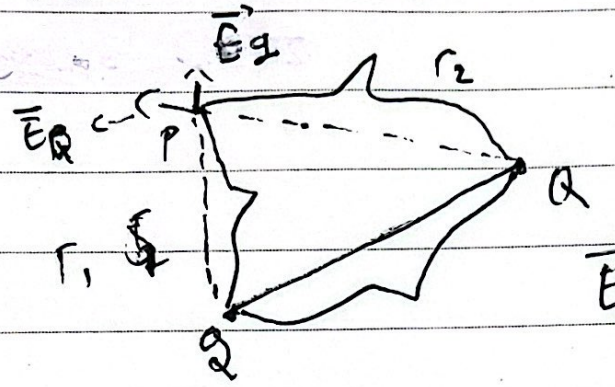
Kelistrikan Dan kemagnetan

Listrik statis

Pak wadis

17-02-2025

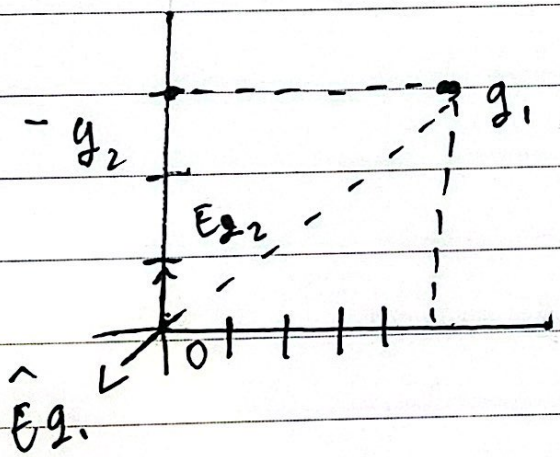
Medan dan gaya



$$\vec{E} = \frac{F}{Q} = k\frac{q}{r^2}\hat{r}_0$$

$$\vec{E}_P = \vec{E}_Q + \vec{E}_q$$

$$= k\left[\frac{q}{r_2}\hat{r}_0 + \frac{Q}{r_2}\hat{r}_{02}\right]$$



di titik O

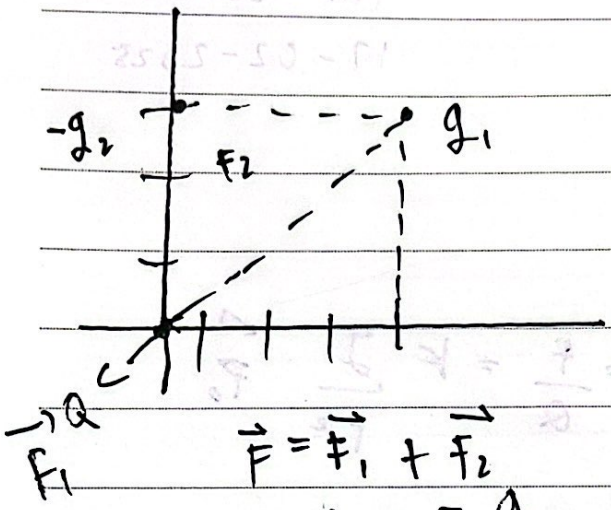
$$\vec{E}_{(0)} = k\left[\frac{q_2}{3^2}(-\hat{j}) + \frac{q_1}{5^2}\left(\frac{4\hat{i} - 8\hat{j}}{5}\right)\right]$$

$$= k\left[-4\frac{q_1}{125}\hat{i} + \left(\frac{q_2}{9} - \frac{32}{125}\right)\hat{j}\right]$$

$$= |\vec{E}| = \sqrt{(\ )^2 + (\ )^2}$$

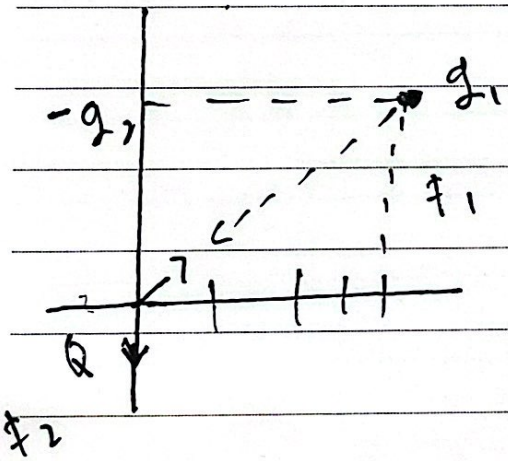
No.

Date. / /



$$\vec{F} = \vec{F_1} + \vec{F_2}$$

$$= kQ\left[\frac{q_2}{3^2}(\hat{j}) + \frac{q_1}{5^2}\left(\frac{-4\hat{i}-8\hat{j}}{5}\right)\right.$$



$$\vec{F_Q} = kQ\left[\frac{q_2}{3^2}(-\hat{j}) + \frac{q}{5^2}\left(\frac{4\hat{i}+3\hat{j}}{5}\right)\right]$$

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