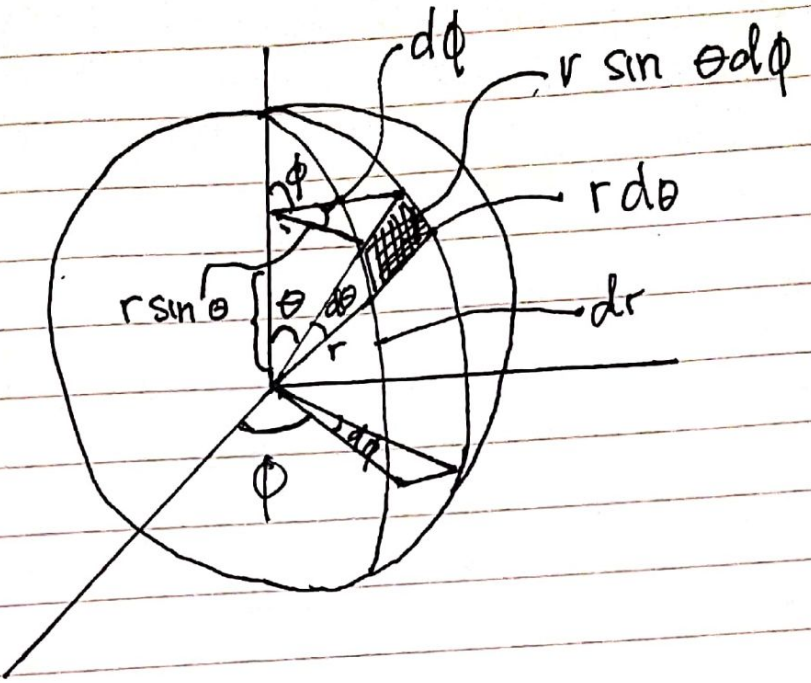
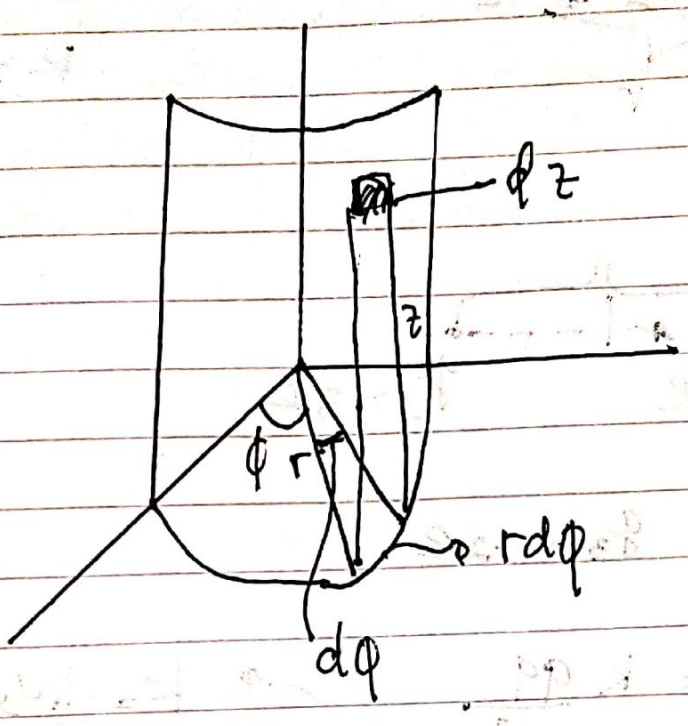
No.

Date



Date



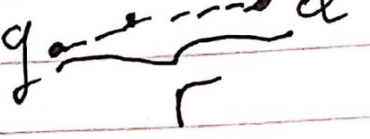
$A = r\,d\phi\,dz$

$V = r\,d\phi\,dz\,dr$

$q = \pm Ne$

listrik statik.

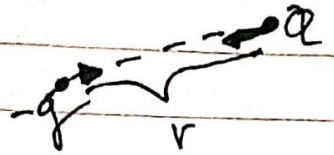
Percepatan berubah. karena massa



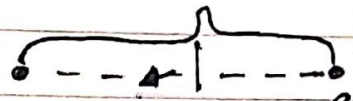
$$F = \frac{1}{4\pi\varepsilon_0}\frac{qQ}{r^2}\hat{r}_0$$

No.

Date



$k = 10$



$q_1 = 1e$ $\quad q_2 = 3e$

$q_3 = -2e$

$\frac{k\,9q}{(r-x^2)} = \frac{k\,qq}{x^2}$ — $k = \frac{q_1 q_3}{x^2} + \frac{q_3 \cdot q_2}{(10-x)^2}$

$\frac{k\,1.2}{x^2} = \frac{k\,2.3}{(10-x)^2}$

$\therefore \frac{1}{x^2} = \frac{3}{(10-x)^2}$

$3x^2 = (10-x)^2$

$3x^2 = 10 - x^2 - 20x$

$x^2 - 3x^2 - 20x = -100$

$-4x^2 - 20x = -100$

$-4x^2 - 20x + 100 = 0$

$3x^2 = (10-x)^2$

$3x^2 = 100 - x^2$

$10^2 = 3x^2 + x^2$

$10^2 = 4x^2$

$x^2 = \frac{100}{4}$

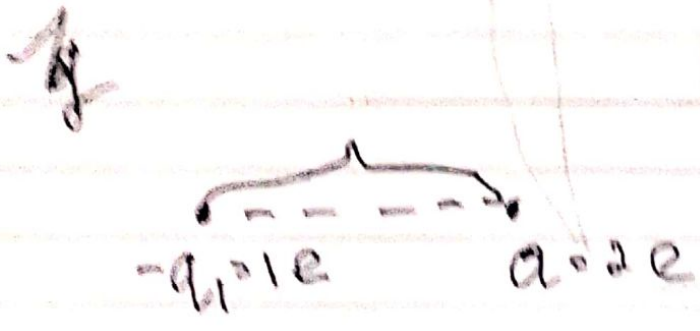
$x^2 = 25$

$x = 5$

$8x^2 = (10-x)^2$

$8x^2 = 100 + x^2 + 100 - 20x$

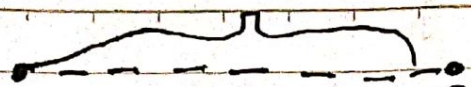
$8x^2 - x^2$



$q = 1e$

$k = \frac{qQ}{(r-x^2)} = k\frac{qq}{x^2}$

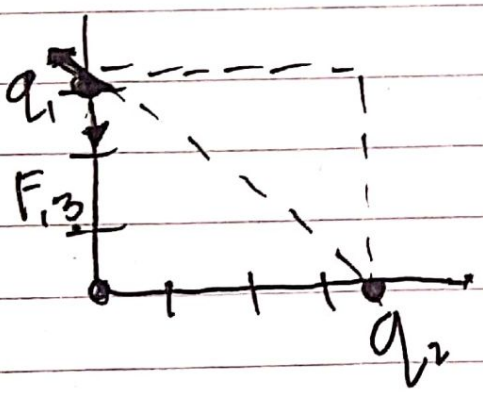
$k = 1.$



$$k\frac{q_1 q_3}{x^2} = k\frac{q_3 q_2}{(10+x)^2}$$

$$\frac{1}{x^2} = \frac{2}{(10+x)^2}$$

$$2x^2 = (10+x)^2$$
$$2x^2 = 100 + x^2 + 20x$$
$$2x^2 - x^2 - 20x - 100 = 0$$
$$x^2 - 20x - 100 = 0$$



$$\hat{r}_0 = \frac{\vec{r}}{|r|}$$

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

$$F_{13} = k\frac{q_1 q_3}{3^2}(-\hat{j})$$

$$(0\hat{i} - 3\hat{j})$$