

Date 14-02-2025

"Kelistrikan dan Magnetic"

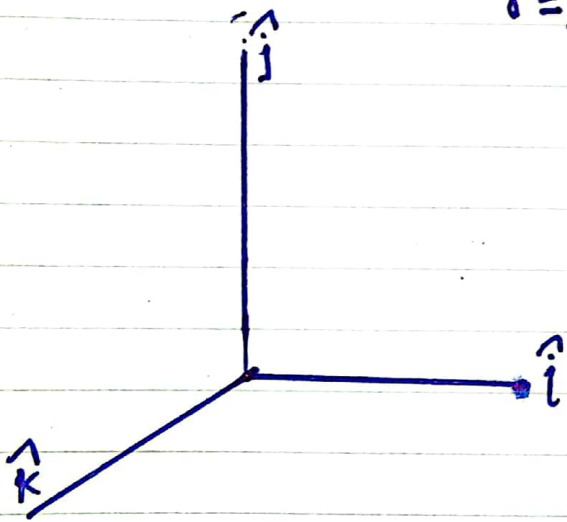
Vektor.

$$\vec{r} = x_1 \hat{i}, x_2 \hat{j}, x_3 \hat{k}$$

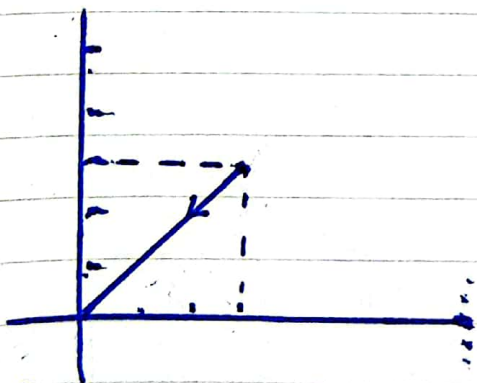
$$\hat{r} = x \hat{i}, y \hat{j}, z \hat{k}$$

$$\vec{v} = v_1 \hat{i}, v_2 \hat{j}, v_3 \hat{k}$$

$$\hat{r} = \frac{\vec{r}}{|\vec{r}|} = \frac{x \hat{i} + y \hat{j} + z \hat{k}}{\sqrt{x^2 + y^2 + z^2}}$$



Example:



$$F \cdot q = k \frac{q_1 \cdot q_2}{r^2}$$

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