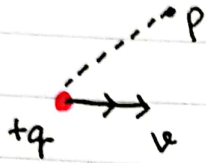


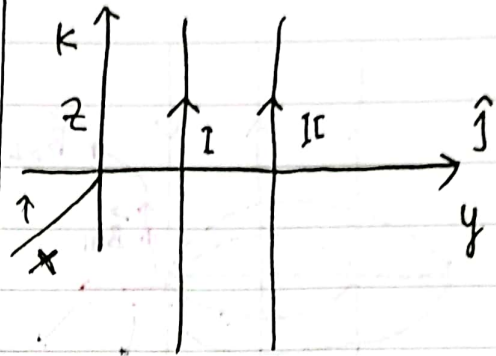
Medan Magnet

1. Medan oleh muatan bergerak

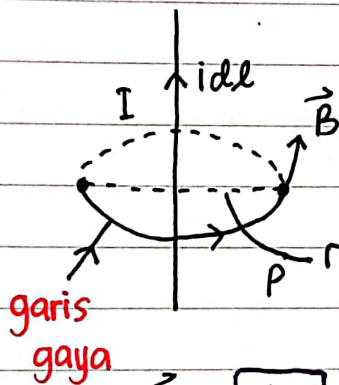


$$\vec{B} = \frac{\mu_0}{4\pi} \frac{q \vec{v} \times \hat{r}}{r^2}$$

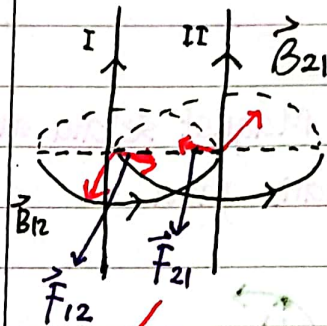
$$= \frac{\mu_0 q v}{4\pi r^2} \sin \theta$$



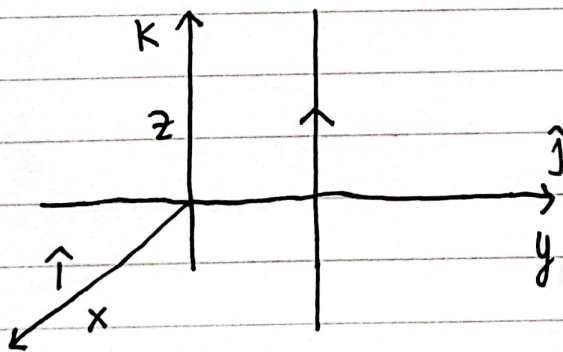
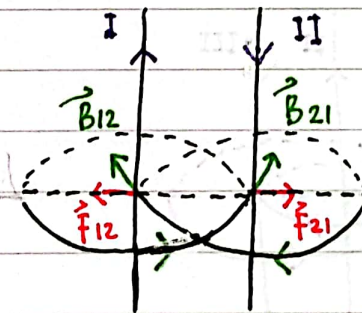
2. $\vec{B}$ oleh arus listrik



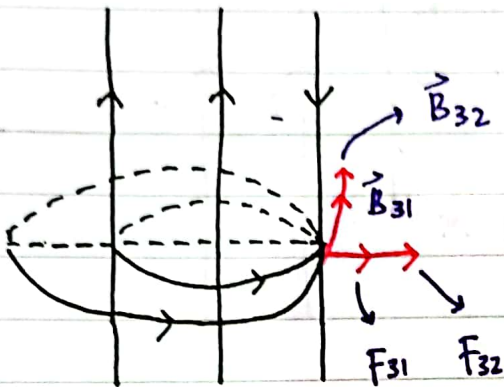
$$\vec{B} = \frac{\mu_0}{4\pi} \frac{i d\vec{l} \times \hat{r}_0}{r^2}$$



$$\vec{F} = i d\vec{l} \times \vec{B}$$



$$\vec{B} = \frac{\mu_0}{4\pi} \frac{i d\vec{l} \times \hat{r}}{r^2} \rightarrow = \frac{\mu_0}{4\pi} \frac{i d\vec{l}}{r^2} \sin \theta (-\hat{r})$$



• Medan Magnet selalu menyinggung garis gaya.

