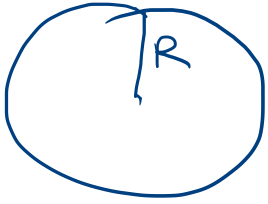
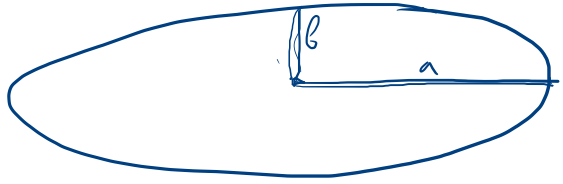
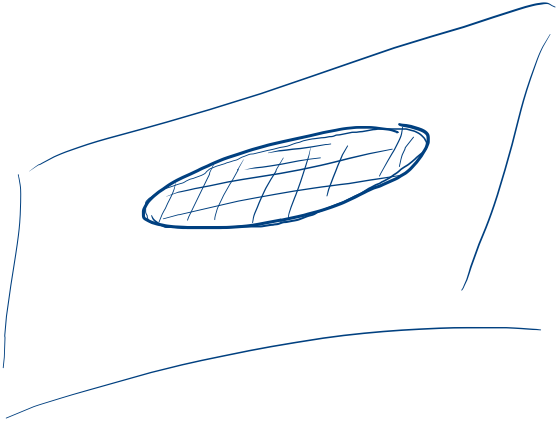
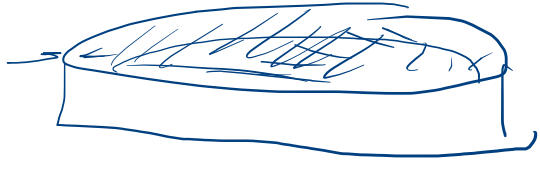


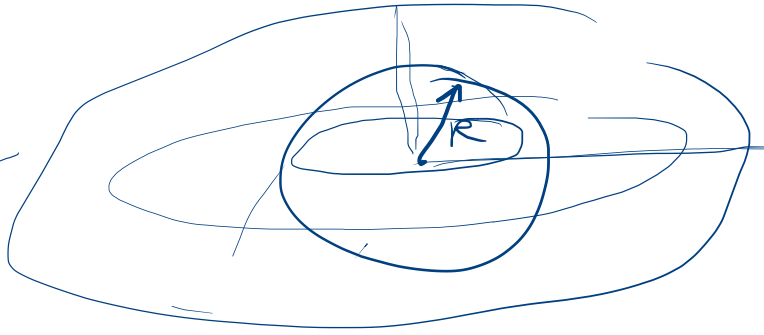


$$e = \sqrt{1 - \frac{b^2}{a^2}}$$





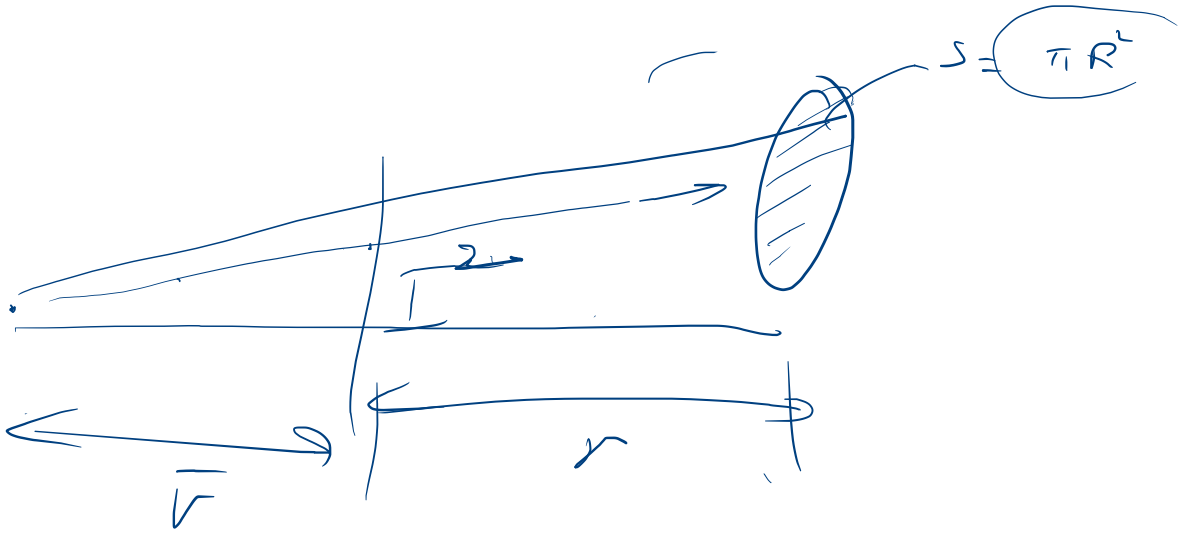
$$e = \sqrt{1 - \frac{b^2}{a^2}}$$

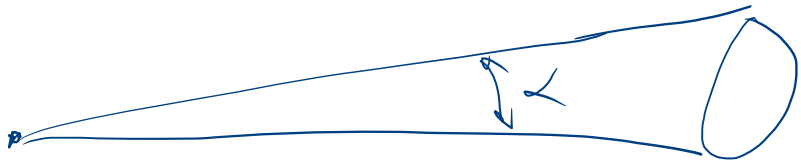


b: $b = 0.5$

$e < 0.7$

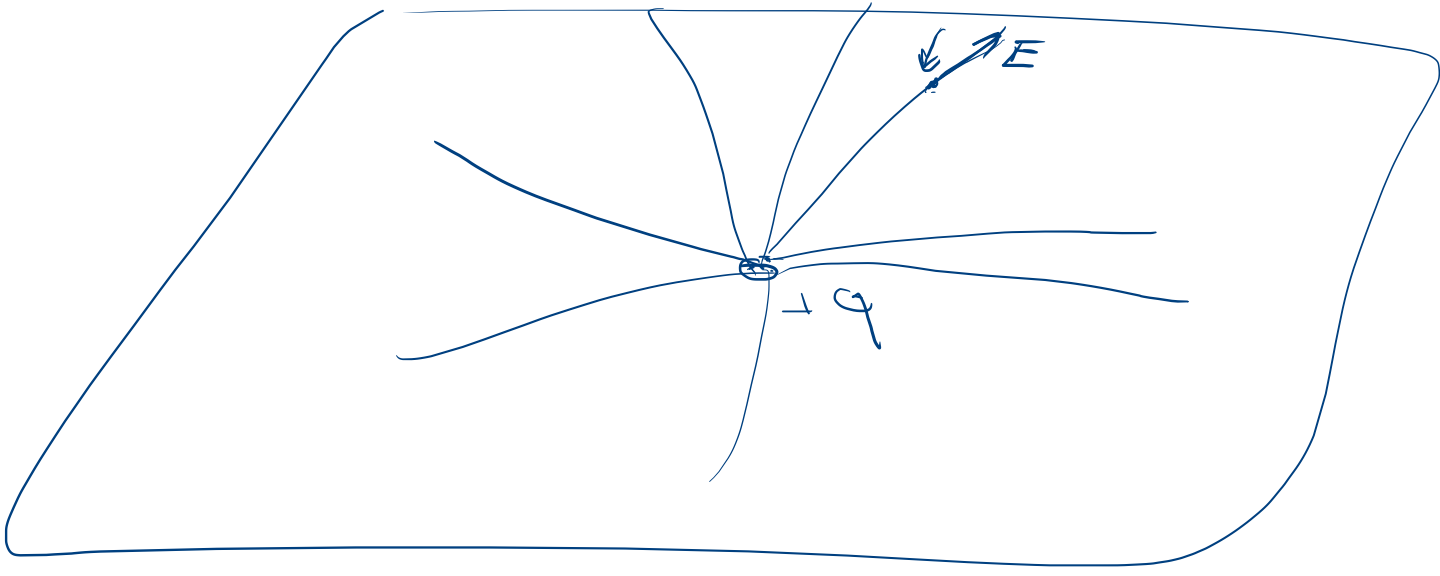
$$\sqrt{1 - \frac{0.25}{a^2}} < 0.7$$


S = πR²
F
r

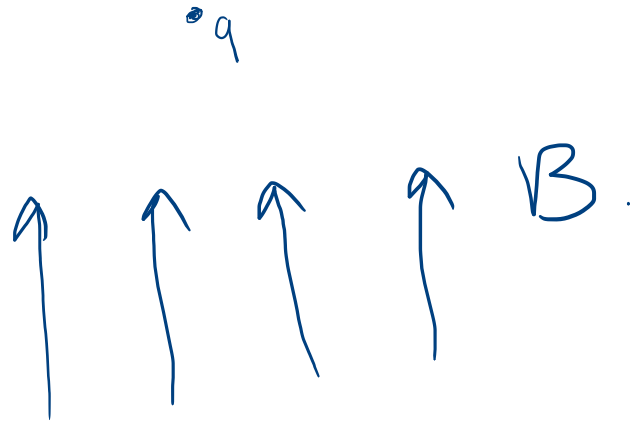

α

Jake none

$F = qE$



Магнитное поле

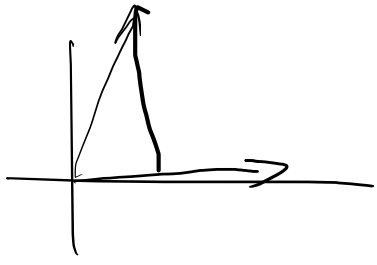


На неподвижный заряд магнитное поле не действует

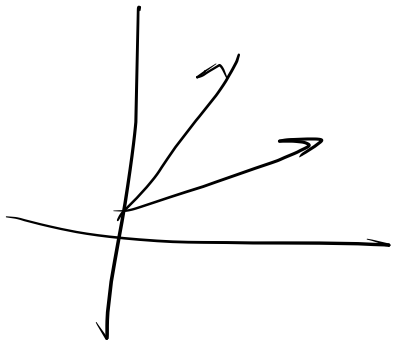
$(\bar{a}, \bar{b}) \in \mathbb{R}$ $\cos\alpha = \frac{x_2}{\sqrt{x_2^2 + y_2^2}}$

$\begin{pmatrix} x_1 \\ y_1 \end{pmatrix} \cdot \begin{pmatrix} x_2 \\ y_2 \end{pmatrix} =$

$(\bar{a}, \bar{b}) = |\bar{a}| \cdot |\bar{b}| \cdot \cos\alpha =$



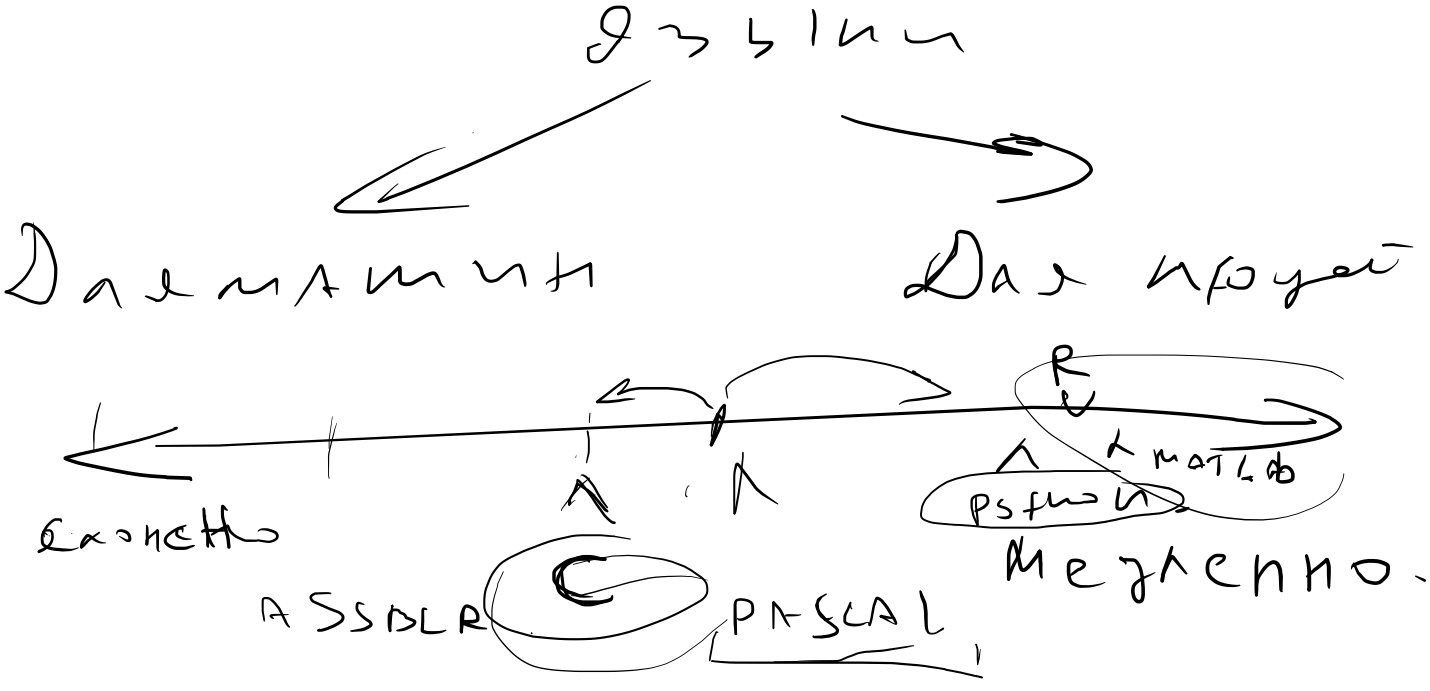
$=$



$$(\bar{a}, \bar{b}) = x_1 x_2 + y_1 y_2$$

$$\begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix} =$$

$$= x_1 y_1 + x_2 y_2 + x_3 y_3$$


Языки
Компилятор
Интерпретатор
R
MATLAB
Python
Быстро
Медленно.
ASSEMBLER
C
PASCAL

def int f(int a, int b):

return a+b;

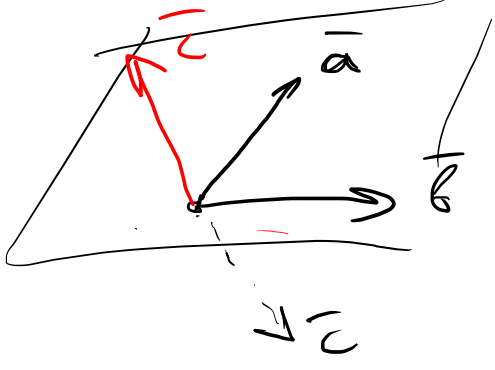
f(1, 2) = 3.

let vec f2(a, c):

return vec(a, c);

$(\bar{a}, \bar{b}) \in \mathbb{R}$

$[\bar{a}, \bar{b}] = \bar{a} \times \bar{b} \in \mathbb{R}^2$

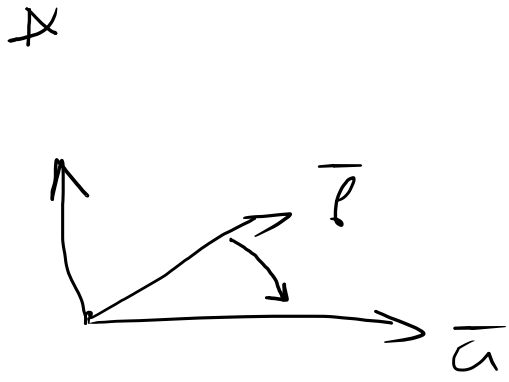


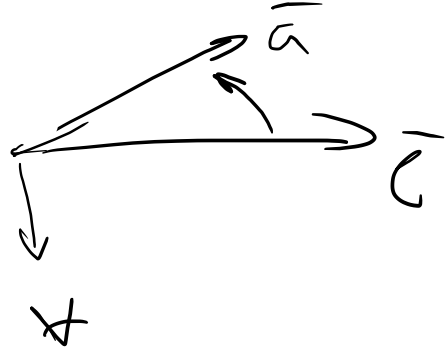
$\bar{a} \times \bar{b} = \bar{c}$

1) $|\bar{c}| = |\bar{a}| \cdot |\bar{b}| \cdot \sin \hat{a,b}$

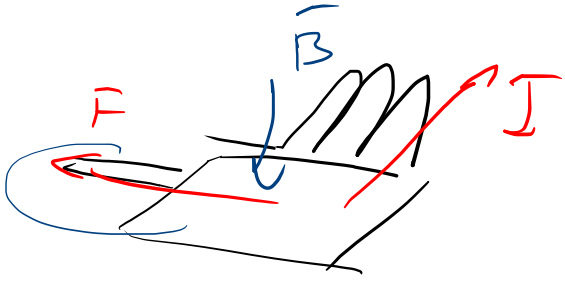
2) $\bar{c} \perp \bar{a}$ и $\bar{c} \perp \bar{b}$

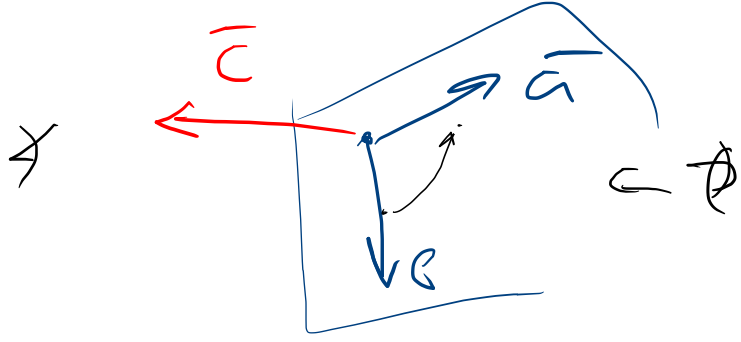
$\bar{a}, \bar{b}, \bar{c}$ образуют правую тройку

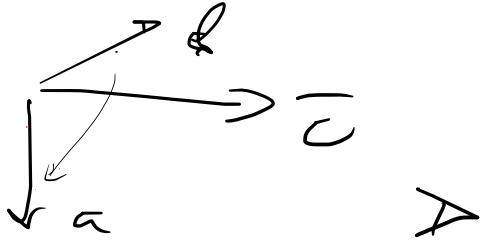


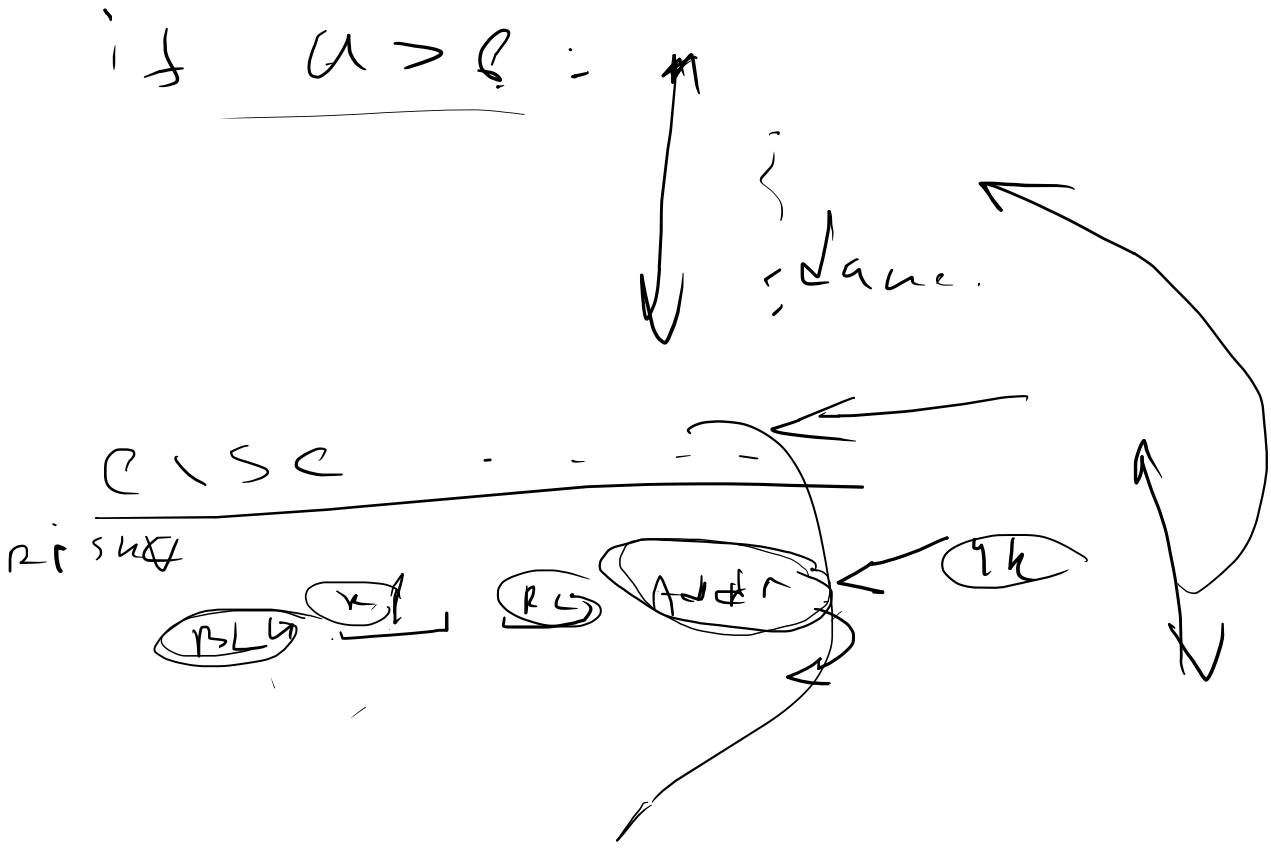


$\bar{F} = \bar{I} \times \bar{B}$

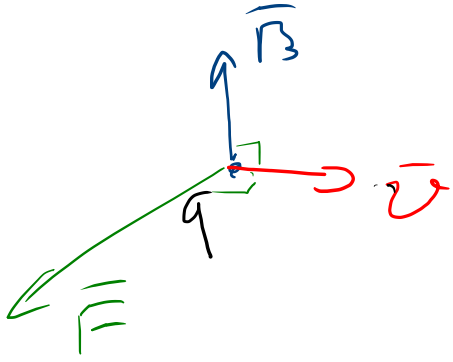


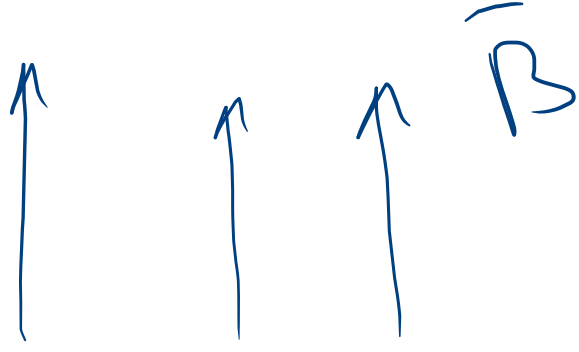


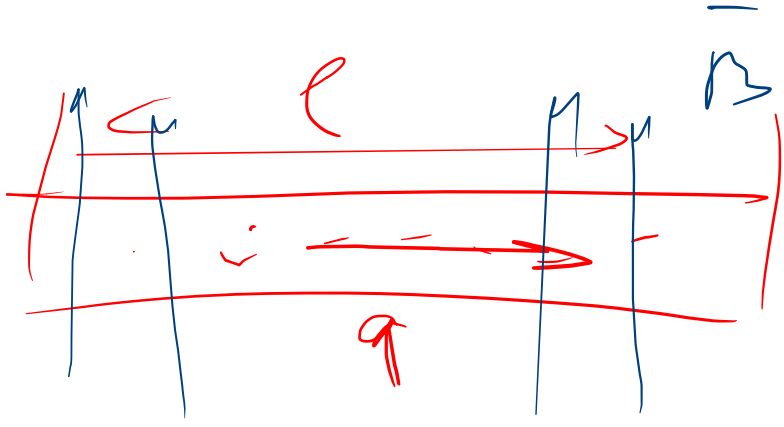




$$\bar{F} = q[\bar{v} \times \bar{B}]$$







$$\bar{I} = \frac{q}{t} \qquad \bar{v} = \frac{\ell}{t} \rightarrow t = \frac{\ell}{\bar{v}}$$

$$\bar{F} = q[\bar{v} \times \bar{B}]$$

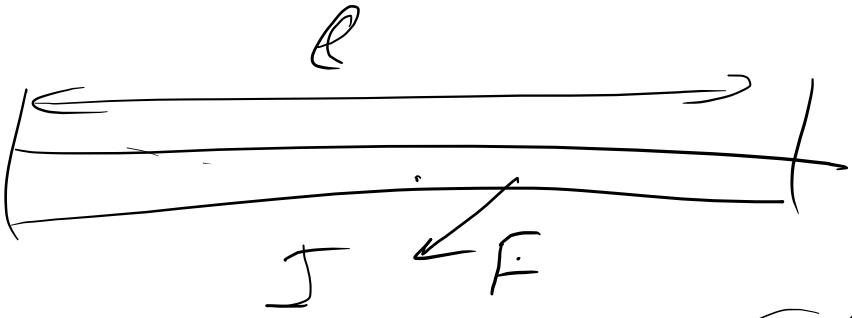
$$\vec{I} = \frac{\Delta}{t}\,\vec{v} = \frac{l}{t} \qquad q = I\,t$$

$$v \cdot q = I \cdot t \cdot \frac{l}{t}$$

$$\vec{F} = q[\vec{v}; \vec{B}]$$

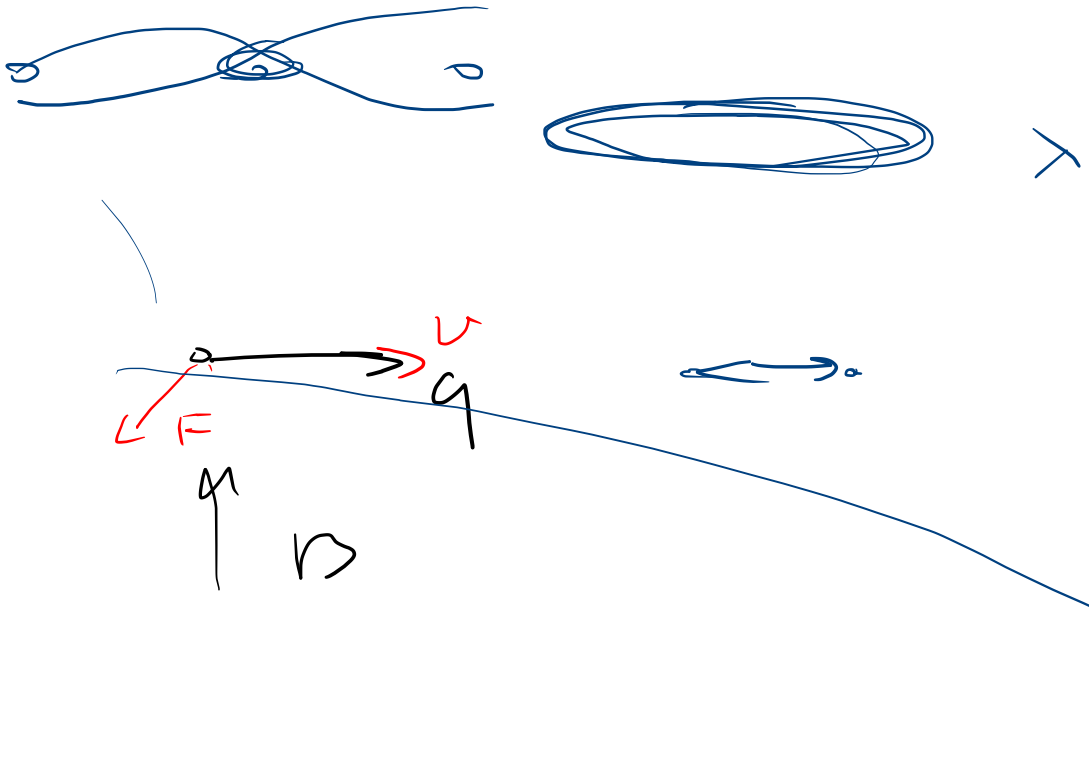
$$|F| = q \cdot |v| \cdot |B| \sin\alpha .$$

$$|F| = I \cdot l \cdot B \sin\alpha$$



$$\Sigma = \frac{q}{t}$$

$$|F| = J \ell \cdot B \sin\alpha$$


v
q
F
q
r