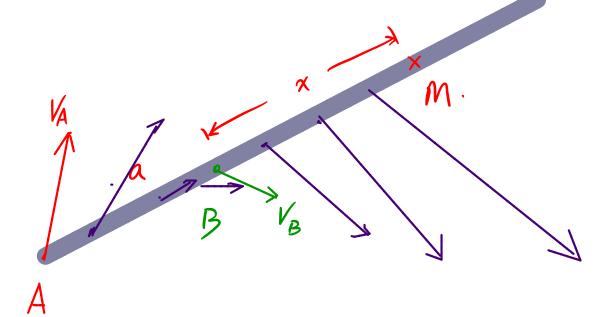
$$\frac{B}{b} = \sin \theta \qquad \frac{y}{a} = \cos \theta$$

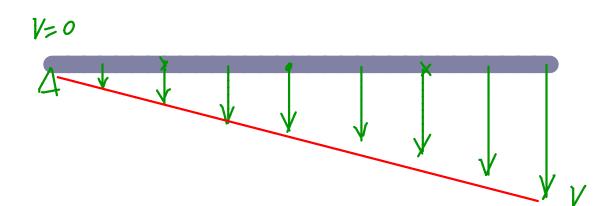
$$\frac{A}{b} = \sin \theta \qquad \frac{y}{a} = \cos \theta$$

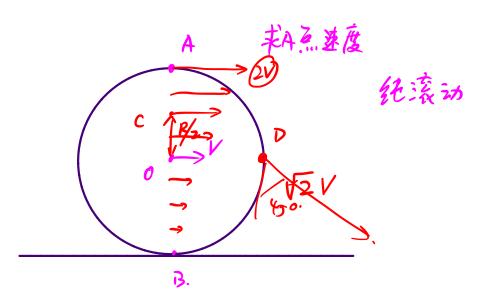
$$\frac{A}{b} = \cot \theta$$

C M M A

M 点 
$$y$$
 3 局 專度  $c$   $\frac{a}{a+b}$   $= c \cdot ctan \cdot \frac{b}{a+b}$ 







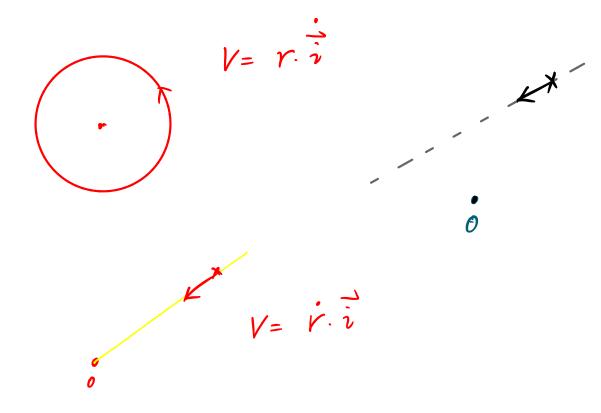
通动

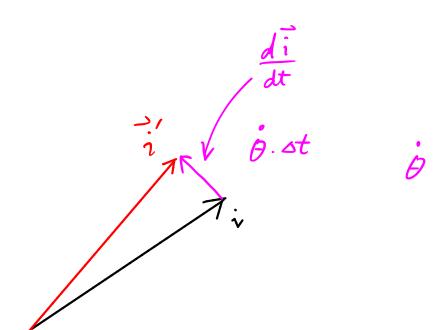
$$\vec{r} = f(r, \vec{i})$$

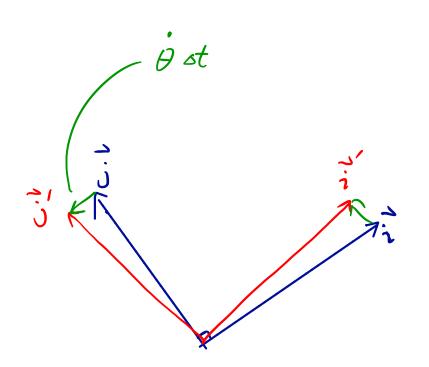
$$V = Vi$$

$$V = Vi + Vi$$

$$V = Vi$$

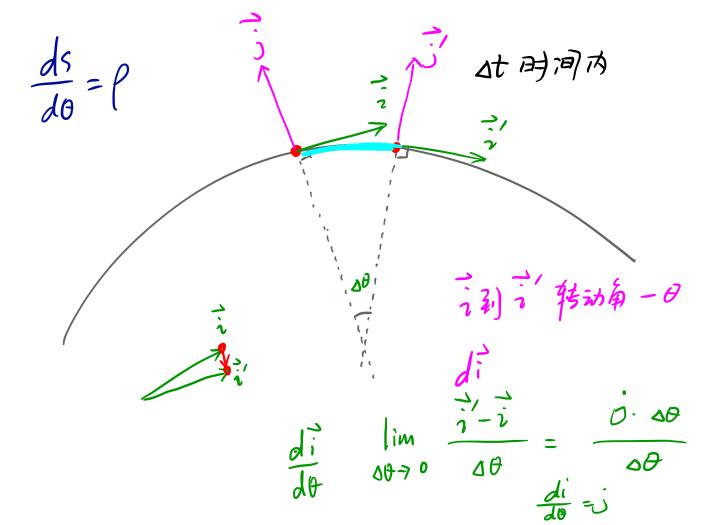






$$\frac{d\vec{i}}{dt} = -\theta \hat{i}$$

$$\frac{\vec{v}}{\vec{v}} = c \cdot e^{ct} \cdot \vec{i} \\
+ e^{ct} \cdot b \cdot \vec{j} \\
\theta = bt \quad \vec{a} = (c^2 \cdot e^{ct} - c \cdot e^{ct} \cdot b^2)^{\frac{1}{2}} \\
2 \cdot c \cdot e^{ct} \cdot b \cdot \vec{j}$$



$$0. \qquad \Delta t = \frac{dV}{dt} = \frac{d\dot{s}}{dt^2} = \frac{d}{dt} (4a \cdot \omega s \cdot \theta \cdot \theta)$$

$$a_{t} = \frac{dV}{dt} \cdot = \frac{d\dot{s}}{dt^{2}} = \frac{d}{dt} (4a \cdot \cos \theta \cdot \dot{\theta})$$

$$= -4a \cdot \sin \theta \cdot (\dot{\theta}) + 4a \cdot \cos \theta \cdot \dot{\theta}$$

$$a_{n} = \frac{V}{\rho} = \frac{(4a \cos \theta \cdot \dot{\theta})^{2}}{4a \cos \theta} = 4a \cos \theta \cdot (\dot{\theta})^{2}$$

$$a = \sqrt{a_t^2 + a_n^2} = 4a(\theta)^2 = 22.$$

$$v_{x} = \frac{dx}{dt} \qquad v_{y} = \frac{dy}{dt} \qquad v_{z} = \frac{dz}{dt}.$$

$$v_{z} = \frac{dz}{dt}.$$

= 104 +16

$$\alpha_{x} = \frac{d^{2}x}{dt^{2}}$$

$$\alpha_{y} = \frac{d^{2}y}{dt}$$

$$\alpha_{z} = \frac{d^{2}z}{dt^{2}}$$

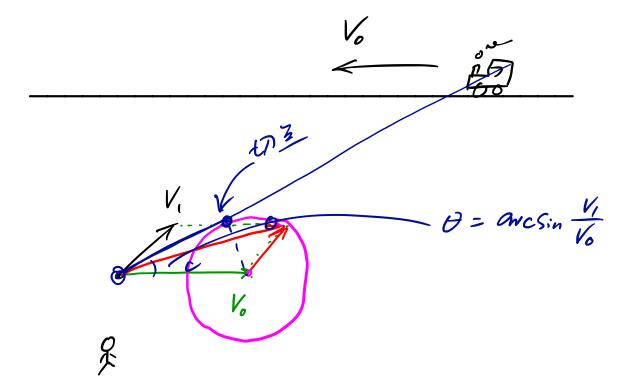
$$\alpha_{z} = \sqrt{\frac{d^{2}z}{dt^{2}}}$$

$$\alpha_{z} = \sqrt{\frac{d^{2}z}{dt^{2}}}$$

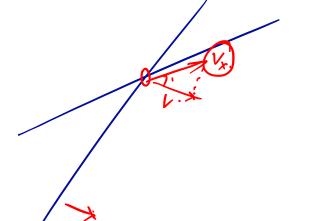
$$\alpha_{z} = \sqrt{\frac{d^{2}z}{dt^{2}}}$$

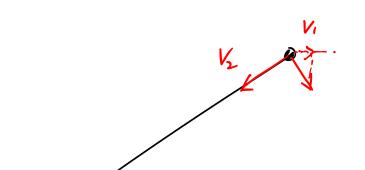
$$\rho = \frac{v^2}{\alpha} = \frac{80}{32} = 2.5$$

(就是Z) wort

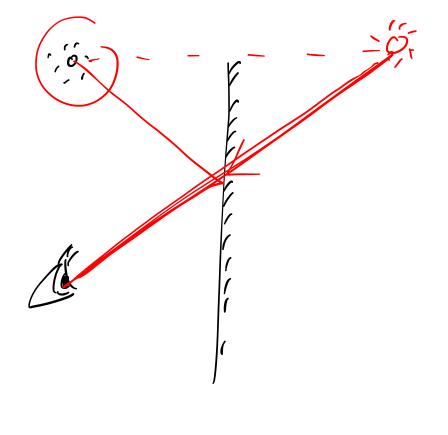


$$\frac{dr}{dt} = -V$$

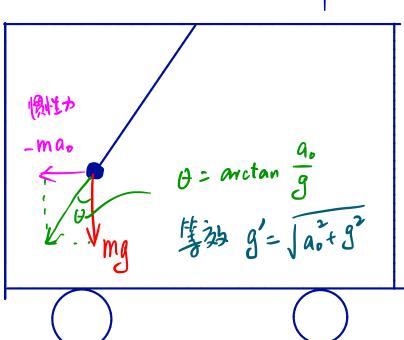


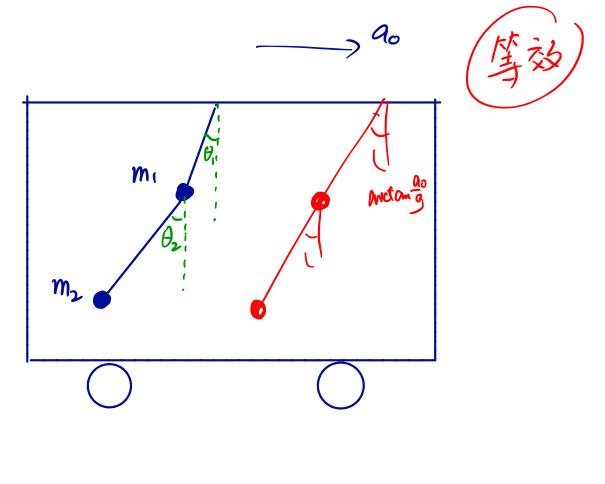


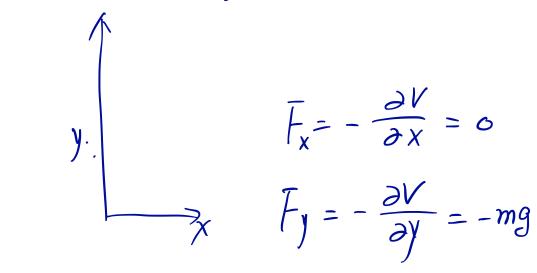
$$\begin{cases} \frac{dr}{dt} = -V_2 \\ \frac{d\varphi}{dt} \cdot r = V_1 \cdot Sin \varphi \end{cases}$$



非惯性参考系







$$V = -k \frac{Qq}{r} \qquad V = \sqrt{r^2 y^2 + 2^2}$$

$$\int_{-x}^{\infty} = -\frac{\partial V}{\partial x} = -kQq \frac{x}{r^3}$$

$$= -kQQ \frac{\partial(x/r)}{r^2}$$

