Onucame ghuneuns MT no naocuer repubers. Notom. n mant. y acop-1. Pagnye upulujun paensopun.

def.

nznepeure pacen. u speneue (maroun)

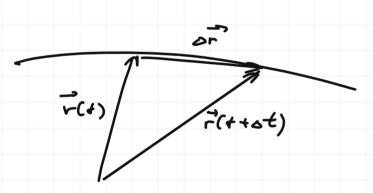
eucm. ororera
matepuarmane morne
papery.-lumet
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eucmenn voofgunas - narans orviens + = xi + yj + zte

رء (x, y, ع)

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٤٠, ٥, ٤}



۵== = (++0+) - = (+)

Vy = or

 $\vec{v} = \lim_{o \to 0} \vec{o} = \frac{d\vec{r}}{dt}$

 \vec{v} - kacam. u Tpaentopny \vec{v} = $\int \vec{v}(t) dt = v_{cp}(t_2 - t_1)$ t_1

 $S = \int_{1}^{\infty} v(t) dt$

 $\vec{a} = \frac{d\vec{v}}{dt} = \frac{d^2\vec{r}}{(dt)^2}$

upo nom netinoe:

 $\vec{r} = r\vec{t}$; $\vec{t} = const$ $\vec{a} = \frac{d\vec{v}}{dt} = a\vec{t}$

paku. pary. moraus no oup-mu:

(=)(+)(=R

107 = 288n (34)

 $w = \lim_{t \to 0} \frac{\partial \varphi}{\partial t} = \frac{d\varphi}{dt}$

 $\gamma = |\vec{r}| = \left| \frac{d\vec{r}}{dt} \right| = \omega R$

で= ジェー

|or | = 2+81 = (= 4)

 $a = |\vec{a}| = \left| \frac{d\vec{r}}{dt} \right| = \omega v = \frac{v^2}{R}$

7 - - 2

るこびメデ=ールアー アラア

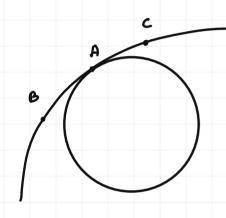
$$\left| \frac{dz}{db} \right| = \left| \frac{dy}{d+} \right| = |\omega|$$

$$\vec{a_t} = \vec{\tau} \frac{dv}{dt} \qquad \vec{a_t} = \vec{n} \frac{v^2}{R} = \omega^2 R \vec{n}$$

 $\vec{t}(t+ot)$

teconst

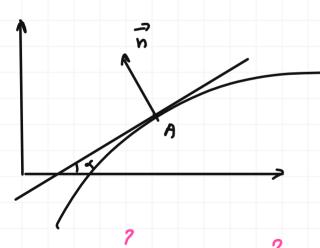
|ot|= 28'noy. t = toy = 04



Paguye uputuzun

p. npr6 - p. npegensnen oupgetuocney, omcamor toupy A, B, C

nyem upulan japana y=f(x)



ty = dy - nacam.

consequence -> ua dx:

nopmans a wacam. notepayore na de

$$d(t_{X}) = d\left(\frac{dy}{dx}\right); \qquad \frac{dx}{\cos^{2}x} = \frac{dy}{(dx)^{2}} dx$$

II hpumep.
$$y = 9x^2$$

$$K = \frac{1}{\ell} = \frac{2\varsigma}{(1 - 4 a^2 x^2)^3/2}$$