LEZION5 10

Pione: 2: J => R2 b.c. || L(f) ||=1 t 1-> (4(5)) velocibé uniborie di dosse $(y' - y') = (x')^{2}(y')^{2} + |x'|^{2}$ t = d' = (y') verson tengents Bose : $\frac{D}{N} = vettou betouvounde = \begin{pmatrix} -y' \\ n' \end{pmatrix}$ vertore di ‡resut : $\frac{d}{d}$ \frac Equasiem di ; $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ $\begin{cases} \frac{1}{5} = k \cdot h \\ \frac{1}{5} = k \cdot h \end{cases}$ (.) K(t) = 0 ~ t_0 dolor flesso (.) $K(t_0) \neq 0$ ~ $\frac{1}{K(t_0)}$ | $C(t_0) = \lambda(t_0) + L N(t_0)$ controdi (into)

convoluse

$$\begin{cases} \{b\} = C(t) + \frac{1}{K(t)}(\cos b) \cdot \frac{1}{t} + \frac{1}{K(t)}(\sin b) \cdot \frac{1}{t} \\ \cos k \cdot \frac{1}{t} \cos k \cdot \frac{1}{t} \end{cases}$$

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$$\begin{cases} \{b\} = C(t) + \frac{1}{K(t)}(\cos b) \cdot \frac{1}{t} + \frac{1}{t} (\sin b) \cdot \frac{1}{t} \cos k \cdot \frac{1$$

= Ku Eg mos om K: curvoture v1 = - K + 2 B 2: torprene Frank 6 6 = - 2 n l° pions es culstra $\langle \underline{t}, \underline{n} \rangle$ pione rettificante < t, b > p. en monde og wester < h & > pien oxulator offine d/t) + < t, u> Certhio of culator office store founder com sopre: Contemb rol paro escelatare

$$t(s) = ore sunh(t)$$

$$= log(s+ \sqrt{s^2+1})$$

$$s = e^{t} - e^{t} = t - 1/e^{t} = 2$$

$$= 2e^{t} - 1$$

$$= 2e^{t} \cdot s = e^{t} - 1$$

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$$t = log(S+JS^{2}+1)$$

$$3z 2 (t(S)) : J' \longrightarrow iR^{2}$$

$$log(S+JIrs)$$

$$\frac{1}{2} \left(\frac{1}{1} + \frac{1}{1} + \frac{1}{1} \right) = \frac{1}{2} \left(\frac{1}{1} + \frac{1}{1} +$$

$$\frac{1}{2} \times S^{2} + \chi S \sqrt{S^{2}_{+1}} + \chi = \frac{1}{2}$$

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$$\frac{1}{2} \times S^{2} + \chi S \sqrt{S^{2}_{+1}} + \chi S \sqrt{$$

Bose di Frenct

$$\begin{cases}
b = m'(s) = (1/\sqrt{1+s^2}) \\
y'(s') = (1+\sqrt{1+s^2})
\end{cases}$$

$$m'(s) = (1+\sqrt{1+s^2})$$

$$= (1+s^2) = (1+s^2)$$

$$(1+s^2) = (1+s^2)$$

$$m'(s) = (1+s^2)$$

$$\begin{cases} b' = V \cdot h \\ h' = +V \cdot t \end{cases}$$

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$$\begin{cases} c - V \cdot -S^2 \\ (A - S^2) \end{cases} = \begin{cases} c - S \\ (A - S^2) \end{cases}$$

$$\begin{cases} c - S - V \cdot -S^2 \\ (A - S^2) \end{cases} = \begin{cases}$$

K(s) = 1 $S^{2}+1$ $T_{2}(s) = S^{2}+1$ $T_{3}= S^{2}+1$

Cerclio 6 culoton

Centro Oscerlobu

 $C(S) = \beta(S) + 1 \mu(S)$ Fu $\log(S + \sqrt{1 + S^2}) - (S^2 + \sqrt{5}) = 1 + S^2$ $= (5^2 + \sqrt{5^2 + 1}) \sqrt{1 + S^2}$

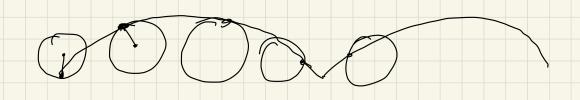
= (log (S+VITC2) + VITS2)
21 (TS2)

12(s) = S2+1 roggio di correture

CICLOIDE

Curve descritte de len punts su di rene cia con ferentra che Notola sense striscion su une rette

https://youtu.be/Q-4bHIH9vOI



Moisons come porometro l'ongolo D:

$$|n(0)| = R(0 - send) \qquad D \in (0, 24)$$

$$|y(0)| = R(1 - cood)$$

t i ss'ann R = 1 per semplicaté.

$$3 = (u(0)) \qquad 2'(0) = (1 - Cx0)$$

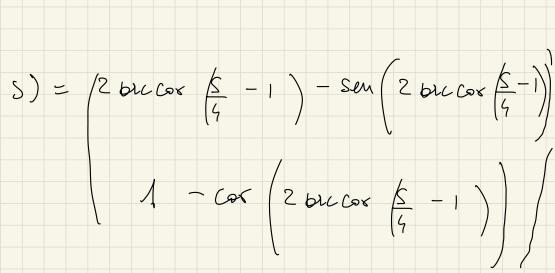
$$5en D$$

$$= 4\left(1-\cos\left(\frac{1}{2}\right)\right)$$

$$\mathcal{D}(S) = 2 \operatorname{brccox} \left(\frac{S}{4} - 1 \right)$$

$$\mathcal{B}(S) = 2 \operatorname{brccox} \left(\frac{S}{4} - 1\right)$$

$$\mathcal{B}(S) = \left(2 \operatorname{brccox} \left(\frac{S}{4} - 1\right)\right) - \operatorname{Sen}\left(2 \operatorname{brccox} \left(\frac{S}{4} - 1\right)\right)$$



Conti?