T Regione (chius $\overline{T} = T$, misushile) TCR limitate

(1) $\psi \in C^1$ (2) ψ insettive peak $(J\psi)$ (3) ψ $\psi \in T$ renk $(J\psi)$ $\psi : T \rightarrow \psi \in T$ $(J\psi)$ $(J\psi)$ e: T -> R3

 $\mathscr{G} = (\mathscr{L}_1, \mathscr{L}_2, \mathscr{L}_3)$

\$ (T) SOSTEGNO

 $f \in C^{1}(T)$ PORZIONE DI SUPERFICIE CARTESIANA

(u,v) -> vi+vj+ f(u,v) k

rock Je (u,v) = 2 Hu,v) ET

x1+x2=4

T= { X: 1<11×122} $\begin{array}{c} \left(\begin{array}{c} \chi_{1} \\ \chi_{2} \end{array} \right) = \begin{pmatrix} \left(\begin{array}{c} Q_{1} \\ Q_{2} \\ \end{array} \right) \end{array}$

\(\frac{\omega_{\text{\chi_1^2 + \chi_2^2}}}{\omega_{\text{\chi_1^2 + \chi_2^2}}} \) \(\frac{\chi_2^2 + \chi_2^2}{\omega_{\text{\chi_1^2 + \chi_2^2}}} \)

 $\frac{\partial}{\partial x_1} \sqrt{x_1^2 + x_2^2} = \frac{x_1}{x_2^2 + x_2^2}$

σ: [0, π7× [0,2π] →123 Q € [0, IT] D € [0,217]



$$T = \left\{ x_1^2 + x_2^2 \leq R^2 \right\}$$

$$\begin{pmatrix}
1 \\
0 \\
\frac{\partial}{\partial x} \left(R^2 - x_1^2 - x_2^2 \right) = \frac{\partial \mathcal{C}}{\partial x_1} = \begin{pmatrix}
0 \\
\frac{\partial}{\partial x_1} \left(R^2 - x_1^2 - x_2^2 \right) \left(-2x_1 \right) = \begin{pmatrix}
-\frac{x_1}{R^2 - x_1^2} \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) = \begin{pmatrix}
0 \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) = \begin{pmatrix}
0 \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) = \begin{pmatrix}
0 \\
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0 \\
0 \\
\frac{\partial}{\partial x_1} \left(-\frac{x_1}{R^2 - x_1^2} \right) \\
\frac{\partial}{\partial x_1} \left(-\frac{x_$$

$$m = \frac{36}{36} \sqrt{\frac{36}{36}} =$$

$$= \underbrace{\left(\frac{x_1}{R^2 - x_1^2 - x_2^2}\right)}$$

SOPECTICE & CAPTESIANA (X, x2, f(x,x2))

11911 =

$$\frac{R}{R^{2}-(x_{1}^{2}-x_{2}^{2})} = \frac{R}{R^{2}-(x_{1}^{2}-x_{2}^{2})}$$

$$= \frac{R}{R^{2}-(x_{1}^{2}-x_{2}^{2})}$$

$$\frac{R}{R^{2}-(x_{1}^{2}-x_{2}^{2})}$$

$$\frac{R}{R^{2}-(x_{1}^{2}-x_{2}^{$$

$$= R^{2} \left(\sin^{4}(\mathcal{C}) + \sin^{2}(\mathcal{C}) \cos^{4}(\mathcal{C}) \right)$$

$$= R^{2} \left(\sin^{4}(\mathcal{C}) + \sin^{4}(\mathcal{C}) \cos^{4}(\mathcal{C}) \right) = R \sin^{4}(\mathcal{C})$$

$$= \int_{0}^{R_{1}} d\mathcal{C} \int_{0}^{R_{1}} d\mathcal{C$$