Tricouri Gleichnung

Myy-yux=0; x,y & R

c=1 = a b=0 [rogl. aux + 2beixy+ ceryg=f] eg >0: lyp., eg 60: ell. ges Berechne alle char . Kurroen un hyp Bereich. char. Richtunger y(x) Normalrichtengen auf 1. Coundrydorfen:
u, on gog.

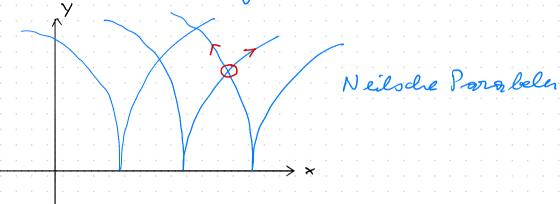
 $\begin{array}{c} \alpha V_1^1 + 2b V_1 V_2 + \langle V_2^1 = 0 \rangle : V_1^2 \quad \text{in } \frac{2a}{\sigma V} \text{ gag} \\ - \text{quad} n. \text{ Gl. } \text{ fix } \frac{V_1}{V_2} \\ \frac{V_1}{V_2} = -b \pm V b^1 - \alpha c' = \pm V g' = -\frac{1}{\gamma} \\ \frac{V_2}{V_2} = \frac{1}{\gamma} = \frac{1}{\gamma} \\ \end{array}$

(V2) -- orth. Richtung an [(V2) -- tongent. Richtung an [

$$\Rightarrow fon \theta = -\frac{v_1}{v_2} = \frac{dy}{dx} = \pm \frac{7}{v_y}$$

$$\pm \frac{v_y}{dx} = \frac{dx}{dx}$$

$$C \pm \frac{v_y}{3} = \frac{v_y}$$



Frage:
$$\{\psi_{\varepsilon}^{i}\}_{\varepsilon>0}$$
 franceszent in $\mathcal{D}'(R)^{2}$.

 $\forall \varphi \in \mathcal{D}(R): \langle \psi_{\varepsilon}^{i}, \varphi \rangle = \int \psi_{\varepsilon}^{i} \varphi \, dx = \frac{1}{\varepsilon^{2}} \int \varphi(x) \, dx = \frac{1}{\varepsilon$

 $\psi: \mathbb{R} \rightarrow \mathbb{R}, \psi(x) = : \mathcal{I}_{(0,1)}(x); \psi_{\varepsilon}(x) = \mathcal{I}_{\psi}(\tilde{\varepsilon})$

 $\frac{\partial}{\partial \varepsilon} \int f(x, \varepsilon) dx = b'(\varepsilon) f(b(\varepsilon)) - a'(\varepsilon) f(a(\varepsilon)) + b(\varepsilon) + \int \frac{\partial f}{\partial \varepsilon} (x, \varepsilon) dx$