

Elementare Differentialgeometrie

Übungsblatt 5

Aufgabe 1.

- (a) Sei M eine Fläche und Π eine Ebene im \mathbb{R}^3 , die M in einer Kurve γ schneidet. Zeigen Sie, daß γ eine Geodätische ist, falls Π eine Symmetrieebene von M ist.
- (b) Jede Gerade auf einer Fläche ist eine Geodätische.
- (c) Sei M die Fläche $\{x^2 + y^2 - z^2 = 1\}$. Finden Sie möglichst viele Geodätische auf M .

Aufgabe 2. Man bilde den Durchschnitt des Zylinders $\{x^2 + y^2 = 1\}$ im \mathbb{R}^3 mit einer Ebene, die die x -Achse enthält und einen Winkel θ mit der xy -Ebene bildet.

- (a) Zeigen Sie, daß die Schnittkurve γ eine Ellipse ist.
- (b) Berechnen Sie die geodätische Krümmung und die Normalkrümmung von γ , aufgefaßt als Kurve im Zylinder, in den Punkten, in denen die Ellipse ihre Achsen schneidet.

Aufgabe 3.

- (a) Die Matrix (L_{ij}) , die die zweite Fundamentalform beschreibt, ist für eine Rotationsfläche wie in Aufgabe 1 vom Übungsblatt 4 gegeben durch

$$\frac{1}{\sqrt{r^2 + z^2}} \begin{pmatrix} rz - zr & 0 \\ 0 & rz \end{pmatrix}.$$

- (b) Es gilt $\det(L_{ij}) = 0$ genau dann, wenn jeder Meridian eine Gerade ist.

Aufgabe 4. Betrachten Sie ein Flächenstück von der Form

$$\kappa(u^1, u^2) = (u^1, u^2, f(u^1, u^2)),$$

d.h. einen Graphen. Berechnen Sie die erste und die zweite Fundamentalform (g_{ij}) , (L_{ij}) . Bestimmen Sie das Christoffel-Symbol Γ_{11}^2 sowohl extrinsisch (d.h. mittels der ursprünglichen Definition) als auch intrinsisch (d.h. mittels Satz 3.5).

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Victor V. Prasolov



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