

Weg ist jetzt die Schnittkurve noch stärker, so tritt sie auch den andern, bisher nicht getretenen Teil des Kegels, die Schnittkurve hat das Aussehen einer Hyperbel (Abb. 10). Um zu beweisen, daß sie wirklich eine Hyperbel ist, legt man in die beiden Teile des Kegels die Kugeln, die sowohl den Kegel als auch die Schnittkurve berühren. (Die Kugeln liegen diesmal auf derselben Seite der Schnittkurve, während sie im Fall der Ellipse zu verschiedenen Seiten liegen.) Der Beweis verläuft nun entsprechend wie S. 7. Es ist (Abb. 10)

$$\begin{aligned}BF_1 &= BP_1, & BF_2 &= BP_1, \\BF_1, BF_2 &= BP_1, & BP_1 & \\&= P_1F_2 = \text{const.}\end{aligned}$$

Wir haben also gefunden, daß jeder Schnitt eines Kegels mit einer Ebene, die nicht durch die Spitze des Kegels geht, entweder eine Ellipse oder eine Parabel oder eine Hyperbel ist. Diese Kurven haben demnach eine innere Vollständigkeit und werden deshalb unter dem Namen *Kegelschnitte* zusammengefaßt.

Zu den drei erwähnten „eigentlichen“ Kegelschnitten sind als „uneigentliche“ noch deren (gerade) Asymptoten, die man erhält, wenn man die Schnittkurve durch die Kegelspitze legt oder den Kegel zum Zylinder ausarten läßt. Als einzelne Kegelschnitte lassen sich also aufassen der Punkt, eine „degenerale“ Gerade, zwei sich schneidende Geraden, zwei parallele Geraden und die leere Ebene. Die Kegelschnitte werden auch als *Kurven zweiter Ordnung* bezeichnet. Dieser Name ist ihnen deswegen gegeben worden, weil sie in cartesianischen Koordinaten durch Gleichungen

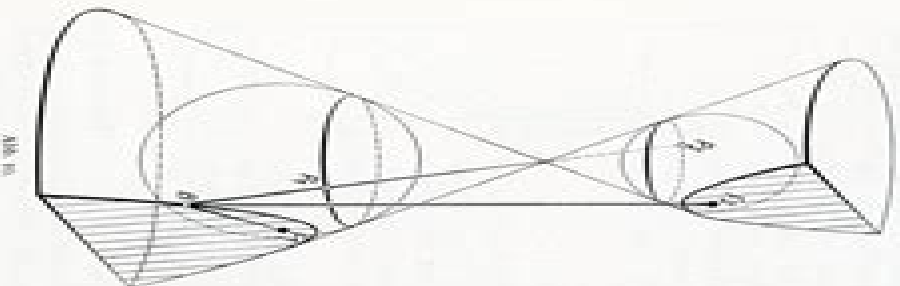


Abb. 10.

¹ Der Kreis ist als ein Grennfall der Ellipse anzusehen (vgl. S. 2).

¹ Der Schatten eines Kreises auf einer beliebigen Ebene ist also ein Kegelschnitt, falls die Lichtquelle sich in einem beliebigen Punkt der Kreisebene befindet. Daß dabei auch Hyperbeln vorkommen, kann man an dem Lichtkegel einer Anordnungs- oder einer Beobachtungsstation, zum Beispiel in der Fabrikzone des Innern eines Hyperbelentropes. In jeder Hyperbelentropen- als Schatten einer Kreismitzunge aufzufaßt werden kann, hat die Hyperbelentropen nur den Verbindungspunkt mit der Hyperbel gemein, wie S. 3 बताया war.

zweiten Grades dargestellt werden, eine Eigenschaft, die sich nicht unmittelbar ausrechenlich formulieren läßt. Sie hat allerdings die anschauliche Folge, daß die Kegelschnitte von keiner Geraden in mehr als zwei Punkten geschnitten werden, es gibt aber noch viele andere Kurven mit dieser Eigenschaft. In den Anhängen dieses Kapitels sollen zwei weitere geometrische Konstruktionen dargestellt werden, die ebenso wie die Brennpunktkonstruktion für alle nicht ausgearteten Kegelschnitte konstruierend sind. Die Fußpunkt-konstruktionen und die Eigenschaft von der Lehrsätze.

Nachdem wir durch Rotation einer Geraden den Zylinder und den Kegel erzeugt haben, liegt es nahe, die Rotationsflächen zu betrachten, die durch Rotation eines Kegelschnittes entstehen. Ich werde dabei die Rotationsachsen so wählen, daß der Kegelschnitt zu ihr symmetrisch liegt, dann gehen nämlich die zu beiden Seiten der Achse liegenden Kurvenstücke nach einer halben Umdrehung ineinander über, so daß ich nur eine einzige Fläche erhalte,

während sonst ein komplizierteres Gebilde entsteht.

Da der Ellipse zwei Symmetrieachsen besitzt, führt sie zu zwei verschiedenen Rotationsflächen je nachdem die Ellipse um die größere oder die kleinere Achse rotiert, erhalte ich ein verlängertes (Abb. 11) oder ein abgeplattetes Rotationsellipsoid



Abb. 11.



Abb. 12.

(Abb. 12). Für die letzte Fläche ist die Erde ein geläufiges Beispiel, für die erste näherungsweise das Hüftenrot.

Der Übergangfall zwischen den beiden Rotationsellipsoiden entsteht, wenn man den Längenschnittwinkel zwischen den Achsen der Ellipse immer kleiner werden läßt. Dann wird aus der Ellipse ein Kreis, und man erhält die Kugel. Da der Kreis zu jedem seiner Durchmesser symmetrisch liegt, läßt sich die Kugel auf unendlich viele Arten durch Rotation erzeugen. Durch diese Eigenschaft ist die Kugel gekennzeichnet. Sie ist die einzige Fläche, die auf mehr als einer Art durch Rotation erzeugt werden kann.

Die Parabel hat nur eine einzige Symmetrieachse und führt daher zu einer einzigen Rotationsfläche, dem Rotationsparaboloid (Abb. 13).

Die Hyperbel dagegen führt zu zwei verschiedenen Rotationsflächen. Je nachdem die Rotation um die Verbindungsachse der Brennpunkte



Abb. 13.

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