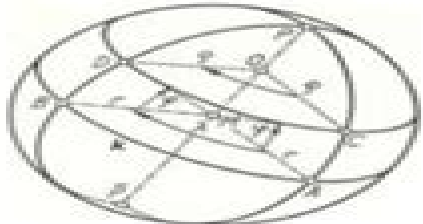


Geometrie der Erde und des Himmels

Übung 1 (Elementare Kugelgeometrie)

1. a) Wo liegen alle Kugelpunkte, die von einem festen Kugelpunkt P denselben sphärischen Abstand α haben? (Beispiele: $\alpha = 60^\circ, 90^\circ, 120^\circ$)
 b) Wie gross ist der Radius ρ des entstandenen Kreises für $\alpha = 60^\circ, 90^\circ, 120^\circ$, beliebig? Für welchen Wert von α ist ρ maximal?
 c) Welche Zirkelöffnung ist nötig, um die Kreise für $\alpha = 60^\circ$ und $\alpha = 90^\circ$ auf einem Globus vom Radius r (z.B. $r = 20\text{cm}$) einzuzichnen?
2. In der Figur ist P der Rechtspol des Grosskreises k durch A und B . Die Winkel $\lambda = 120^\circ$ und $\varphi = 30^\circ$ sowie der Radius $r = 6370\text{km}$ (Erdradius) seien gegeben.

- a) Berechnen Sie den sphärischen Abstand der Punktepaare (C, P) , (D, P) und (A, B) im Längenmass.
 - b) Bestimmen Sie die Länge des Kleinkreisbogens $\overset{\frown}{CD}$, die Länge der Sehne CD sowie den sphärischen Abstand von C und D .


3. Wie viele Prozent der Kugeloberfläche umfasst ein Kugeldreieck mit

a) $\alpha = \beta = \gamma = 90^\circ$
b) $\alpha = 70^\circ, \beta = 80^\circ, \gamma = 120^\circ$
c) $\alpha = \beta = \gamma = 135^\circ$
4. Unter dem **sphärischen Exzess** ε eines Eulerschen Kugeldreiecks mit den Winkeln α, β, γ versteht man die Differenz $\varepsilon = \alpha + \beta + \gamma - 180^\circ$.
 Zeigen Sie: Wird der sphärische Exzess ε im Bogenmass gemessen, so gilt für den Inhalt F der Dreiecksfläche $F = r^2 \cdot \varepsilon$. Was bedeutet also ε , wenn $r = 1$ ist?
5. Wie viele Quadratkilometer misst auf der nördlichen Erdhalbkugel die Fläche zwischen dem Nullmeridian und dem Längengrad 75° W ? (Erdradius 6370 km)
6. **Polardreieck** (Figur 5)
 - a) Verifizieren Sie: Ist das Kugeldreieck $A'B'C'$ Polardreieck zum Kugeldreieck ABC , so ist auch das Dreieck ABC Polardreieck zum Dreieck $A'B'C'$.
 - b) Zeigen Sie: Ist $c = \overset{\frown}{AB}$ eine Seite eines Kugeldreiecks und γ' der Winkel in der entsprechenden Ecke C' des Polardreiecks, so gilt $c + \gamma' = 180^\circ$. Betrachten Sie dazu die Winkel in der Grosskreisebene durch A und B .
7.
 - a) Bei welchem Dreieck fallen Polardreieck und Gegendreieck zusammen?
 - b) Welche Eigenschaften hat das Polardreieck eines gleichschenkligen, eines gleichseitigen, eines rechtwinkligen Kugeldreiecks?
 - c) Berechnen Sie den Flächeninhalt des Polardreiecks zum Kugeldreieck ABC mit den Seiten $a = 80^\circ, b = 100^\circ, c = 120^\circ$.

Elementare Kugelgeometrie

AW Rasmussen



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gewissen Beschäftigung mit Mathematik Erst wenn man bereits etwas von der Mathematik kennengelernt hat erscheint es angebracht sich einmal über die mathematische Methode über den Aufbau des Lehrgutes und über seine Grundlage klarzuwerden Es haben zahlreiche frühere Lehrpläne für höhere Schulen einen wiederholenden Aufbau des Zahlbegriffes in die Oberklassen verlegt Es haben die Meraner Vorschläge und nach ihnen andere moderne Stoffpläne als Abschluss des mathematischen Unterrichts Rückblicke unter Heranziehung geschichtlich und philosophischer Gesichtspunkte gefordert Die preussischen Richtlinien vom Jahre 1925 legten sowohl in den methodischen Bemerkungen wie in den Lehrplänen großen Nachdruck auf derartige philosophisch vertiefte Rückblicke Logik und Erkenntnistheorie finden einen Platz in der Mathematik Auch die psychologischen Grundlagen des mathematischen Denkens soll der Unterricht über hängen Einzelfragen wie Zahlen und Raumvorstellungen sind nach Möglichkeit philosophisch zu vertiefen so heißt es in ihnen Auch die Marienauer Vorschläge 1945 um wenigstens einen der neuen Pläne zu nennen fordern Aufbau und Grundlage der Mathematik Entwicklung des Zahl und Funktionsbegriffes axiomatisches Verfahren der Grundlegung am Beispiel der Geometrie Ausblicke auf Logik und Erkenntnislehre

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