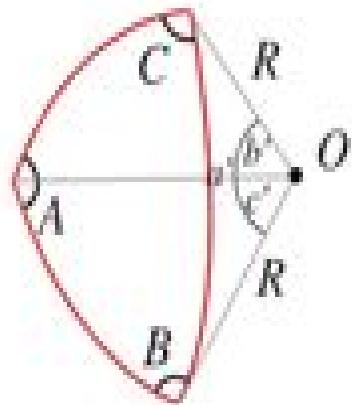


Spherical Trigonometry



Let a **spherical triangle** be drawn on the surface of a **sphere** of radius R , centered at a point $O = (0, 0, 0)$, with vertices A , B , and C . The vectors from the center of the sphere to the vertices are therefore given by $\mathbf{a} = \overrightarrow{OA}$, $\mathbf{b} = \overrightarrow{OB}$, and $\mathbf{c} = \overrightarrow{OC}$. Now, the *angular lengths* of the sides of the triangle (in radians) are then $\alpha' = \angle BOC$, $\beta' = \angle COA$, and $\gamma' = \angle AOB$, and the *actual arc lengths* of the side are $a = R\alpha'$, $b = R\beta'$, and $c = R\gamma'$. Explicitly,

$$\mathbf{a} \cdot \mathbf{b} = R^2 \cos \gamma' = R^2 \cos \left(\frac{c}{R} \right) \quad (1)$$

Solid Geometry Spherical Trigonometry

Gerardus Beekman DOCHARTY

Solid Geometry Spherical Trigonometry:

Elements of Plane and Solid Geometry, and of Plane and Spherical Trigonometry Gerardus Beekman

Docharty,2022-02-24 Reprint of the original first published in 1867 *Elements of plane and solid geometry. Together with the elements of plane and spherical trigonometry, etc* Gerardus Beekman DOCHARTY,1857 Plane and Solid Geometry

George Roberts Perkins,1860 Plane and Solid Geometry George Roberts Perkins,1855 Perkins' Series. Plane and Solid Geometry. To which is added plane and spherical trigonometry and mensuration. Accompanied with all the necessary logarithmic and trigonometric tables George R. PERKINS (Professor of Mathematics.),1855 **Mathematics** ,1813

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