

HCR's Cosine Formula

Angle between the chords of two great circles arcs

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Introduction: HCR's cosine formula derived by the author is a trigonometric relation of four parameters/angles. It is applied to find out the (plane) angle between the chords (i.e. straight lines joining the ends points) of any two great circle arcs meeting each other at a common end point at a given angle on a spherical surface of finite radius. Two great circle arcs AB & AC are meeting (intersecting) each other at their common end point A at a given angle θ such that α & β are the angles subtended by the great circle arcs AB & AC respectively at the centre O of the sphere. The chords AB & AC also meet each other at the common end point A at a plane angle θ_p [As shown in the figure 1]. Here, we are interested to derive a mathematical formula which correlates four parametric angles α, β, θ & θ_p and is used to find out any one of four angles when other three are known.

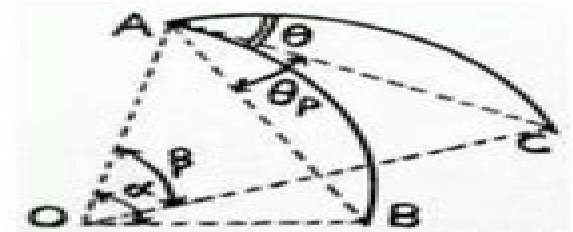


Figure 1: Two great circle arcs AB & AC meeting each other at a common end point A at an angle θ & subtending angles α & β at centre O

Derivation: Let there be any two great circle arcs AB & AC meeting (intersecting) each other at a common end point A at an angle θ on a spherical surface of radius R . Let α & β be the angles subtended by the great circle arcs AB & AC respectively at the centre O of the sphere and θ_p be the angle between the corresponding chords AB & AC of the great circle arcs. [As shown

in the figure 2]

Now, draw the tangents to the great circles arcs AB & AC at the common end point A & extend them so as to intersect the extended lines OB & OC at the points B' & C' respectively. The angle between the tangents AB' & AC' will be θ (equal to the angle between the great circle arcs AB & AC). Let $\angle B'OC' = \gamma$. Thus we obtain a tetrahedron OAB'C' having angles α, β & γ between consecutive edges meeting at the vertex O such that the angle between the lateral triangular faces OAB' & OAC' is θ . Now, using **inverse cosine formula** for unknown angle γ in the tetrahedron OAB'C' as follows

$$\gamma = \cos^{-1}(\cos\alpha\cos\beta + \sin\alpha\sin\beta\cos\theta)$$

$$\cos\gamma = \cos\alpha\cos\beta + \sin\alpha\sin\beta\cos\theta$$

$$1 - 2\sin^2\frac{\gamma}{2} = \cos\alpha\cos\beta + \sin\alpha\sin\beta\cos\theta$$

$$2\sin^2\frac{\gamma}{2} = 1 - \cos\alpha\cos\beta - \sin\alpha\sin\beta\cos\theta$$

In isosceles $\triangle AOB$ (see figure 2),

$$OA = OB = R, \angle AOB = \alpha$$

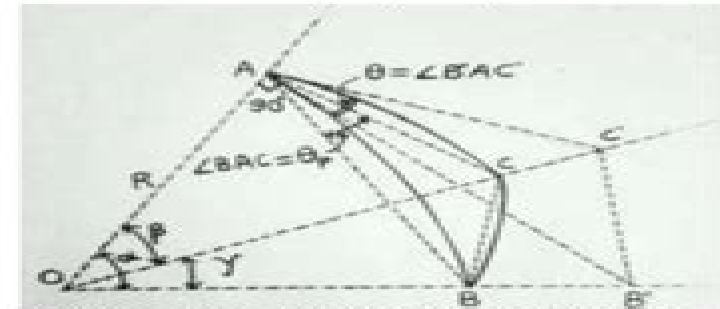


Figure 2: $\angle BAC = \theta_p$ is the (plane) angle between the chords AB & AC of great circle arcs AB & AC which meet each at the common end point A

$$\dots\dots\dots (1)$$

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1. Understanding the eBook 10 6 Circle And Arcs Form G
 - The Rise of Digital Reading 10 6 Circle And Arcs Form G
 - Advantages of eBooks Over Traditional Books
2. Identifying 10 6 Circle And Arcs Form G
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 10 6 Circle And Arcs Form G
 - User-Friendly Interface
4. Exploring eBook Recommendations from 10 6 Circle And Arcs Form G
 - Personalized Recommendations
 - 10 6 Circle And Arcs Form G User Reviews and Ratings
 - 10 6 Circle And Arcs Form G and Bestseller Lists
5. Accessing 10 6 Circle And Arcs Form G Free and Paid eBooks

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- 10 6 Circle And Arcs Form G Budget-Friendly Options
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 - 10 6 Circle And Arcs Form G Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 10 6 Circle And Arcs Form G
 - Highlighting and Note-Taking 10 6 Circle And Arcs Form G
 - Interactive Elements 10 6 Circle And Arcs Form G
- 8. Staying Engaged with 10 6 Circle And Arcs Form G
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 10 6 Circle And Arcs Form G
- 9. Balancing eBooks and Physical Books 10 6 Circle And Arcs Form G
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 10 6 Circle And Arcs Form G
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 10 6 Circle And Arcs Form G
 - Setting Reading Goals 10 6 Circle And Arcs Form G
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 10 6 Circle And Arcs Form G
 - Fact-Checking eBook Content of 10 6 Circle And Arcs Form G
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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