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## **Plane And Spherical Trigonometry**

Spherical trigonometry is the branch of spherical geometry that deals with the relationships between trigonometric functions of the sides and angles of the spherical polygons defined by a number of intersecting great circles on the sphere. Spherical

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trigonometry is of great importance for calculations in astronomy, geodesy, and navigation. The origins of spherical trigonometry in Greek mathematics and the major developments in Islamic mathematics are discussed fully in History of trigonometry an

**Spherical  
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### PLANE AND SPHERICAL TRIGONOMETRY 3.1

Introduction It is assumed in this chapter that readers are familiar with the usual elementary formulas encountered in introductory trigonometry. We start the chapter with a brief review of the solution of a plane triangle.

## **CHAPTER 3 PLANE AND SPHERICAL TRIGONOMETRY**

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Spherical trigonometry is the basis for navigation; engineering depends on large part on trig. There's a sensitivity to real-world applications that is lacking in newer math textbooks. Read more

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Furthermore, most formulas from plane trigonometry have an analogous



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representation in spherical trigonometry. For example, there is a spherical law of sines and a spherical law of cosines. For example, there is a spherical law of sines and a spherical law of cosines.

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## **Theory and Problems of Plane and Spherical Trigonometry ...**

PLANE AND SPHERICAL  
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Course Description.

Trigonometric

functions; identities

and equations;

solutions of triangles;

law of sines; law of

cosines; inverse

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trigonometric functions; spherical trigonometry.

Prerequisites: None;  
Course Objectives.

After completing this course, the student must be able to:

## **Subject: Plane and Spherical Trigonometry**

1 Introduction. The sides of a spherical triangle are arcs of great circles. A great circle is the

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intersection of a sphere with a central plane, a plane through the center of that sphere.

The angles of a spherical triangle are measured in the plane tangent to the sphere at the intersection of the sides forming the angle.

### **Spherical Trigonometry**

Spherical

Trigonometry. Let a spherical triangle be

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drawn on the surface of a sphere of radius  $r$ , centered at a point  $O$ , with vertices  $A$ ,  $B$ , and  $C$ . The vectors from the center of the sphere to the vertices are  $\vec{OA}$ ,  $\vec{OB}$ , and  $\vec{OC}$  therefore given by  $r\hat{a}$ ,  $r\hat{b}$ , and  $r\hat{c}$ . Now, the angular lengths of the sides of the triangle (in radians) are then  $\alpha$ ,  $\beta$ , and  $\gamma$ , and the actual arc lengths of the side are  $r\alpha$ ,  $r\beta$ , and  $r\gamma$ .

## **Spherical Trigonometry -- from** *Page 14/24*

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mul<sup>^</sup> in Plane and  
Spherical

Trigonometry; so as to include an account of the properties in Spherical Trigonometry which are analogous to those of the Nine Points Circle in Plane Geometry. The mode of investigation is more elementary than those hitherto employed; and perhaps some of the results are new. The

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## **The Project**

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### 3.2: Plane Triangles

This section is to serve as a brief reminder of how to solve a plane triangle. While there may be a temptation to pass rapidly over this section, it does contain a warning that will become even more pertinent in the section on spherical triangles.

### 3.3: Cylindrical and



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Spherical Coordinates;

3.4: Velocity and  
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## **3: Plane and Spherical Trigonometry - Physics LibreTexts**

This video explains the differences between plane and spherical triangles and trigonometry. It also explains the concepts of the right-angled triangle, and c...

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### **Plane and Spherical Trigonometry and Triangles (Sin, Cos**

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Plane trigonometry deals with 2-Dimensional triangles like the ones you would draw on a piece of paper. But, spherical trigonometry deals with circles and 3-Dimensional triangles. Plane trigonometry uses different numbers and equations than spherical trigonometry.

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