

Chapter 3

Fundamentals of Trigonometry

3.1 Introduction:

The word "trigonometry" is a Greek word. Its mean "measurement of a triangle". Therefore trigonometry is that branch of mathematics concerned with the measurement of sides and angle of a plane triangle and the investigations of the various relations which exist among them. Today the subject of trigonometry also includes another distinct branch which concerns itself with properties relations between and behavior of trigonometric functions.

The importance of trigonometry will be immediately realized when its applications in solving problem of mensuration, mechanics physics, surveying and astronomy are encountered.

3.2 Types of Trigonometry:

There are two types of trigonometry

(1) Plane Trigonometry (2) Spherical Trigonometry

1. Plane Trigonometry

Plane trigonometry is concerned with angles, triangles and other figures which lie in a plane.

2. Spherical Trigonometry

Spherical Trigonometry is concerned with the spherical triangles, that is, triangles lies on a sphere and sides of which are circular arcs.

3.3 Angle:

An angle is defined as the union of two non-collinear rays which have a common end-points.

An angle is also defined as it measures the rotation of a line from one position to another about a fixed point on it.

In figure 5.1(a) the first position OX is called initial line (position) and second position OP is called terminal line or generating line(position) of $\angle XOP$.

If the terminal side resolves in anticlockwise direction the angle described is positive as shown in figure (i)

If terminal side resolves in clockwise direction, the angle described is negative as shown in figure (ii)



Fig. 4.1. . . .

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