

## Trigonometric functions.

In this chapter, we will generalise the concept of trigomometric ratios to trigonometric functions and Study their properties (1) Angles.

non-collinear rays B

Ang 12

An angle is obtained by hotating a harp from one position to another. In this case the initial position of the rotating hay is called the working bude and the final position of the hay is called the trained terminal side.

The disection can be taken

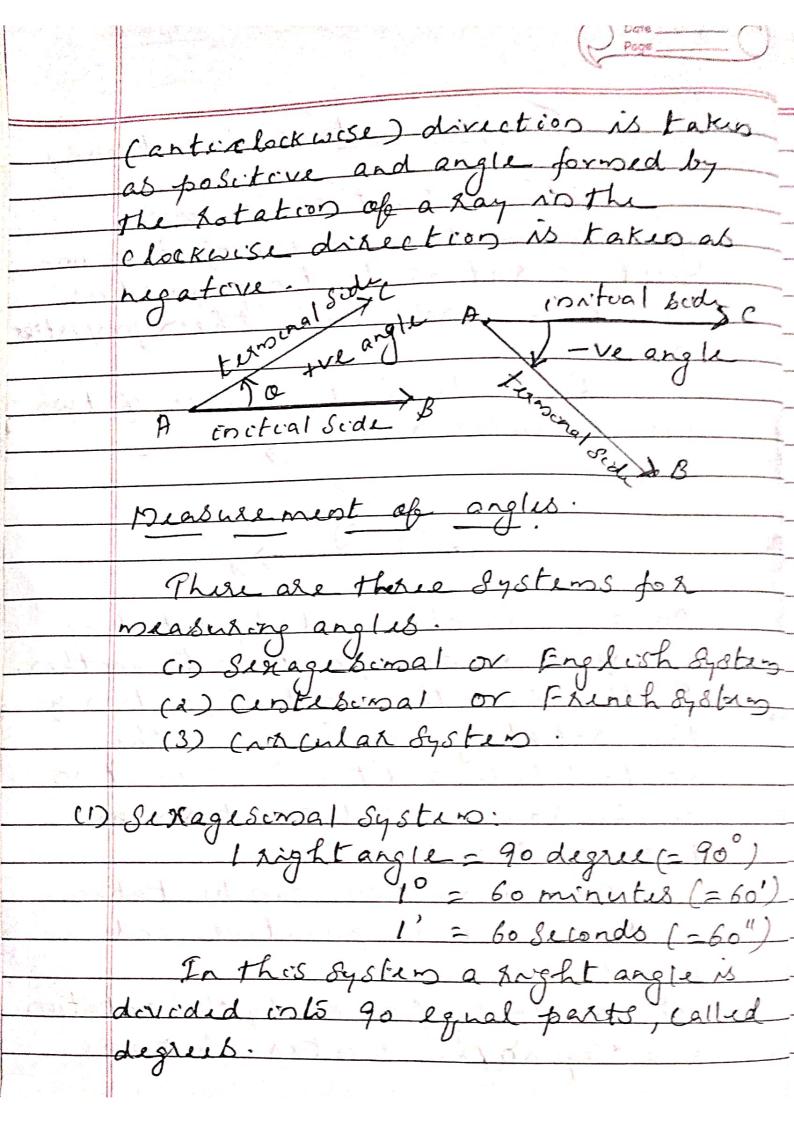
The direct con can be taken

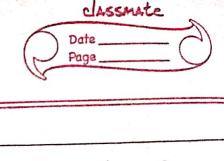
on two senses: positive and

negative.

on an anele formed by the rotat

of a ray nothe counter-clockwose





Can	Centebinal System.
	1 2054 t. anolo - 100 anades (=1009)
	$1 \text{ 8 oght angle} = 100 \text{ grades} (=100^9)$ $1  = 100 \text{ monutes} (=100^9)$
	1' = (00 Nocands (=100")
	I' = looSeconds (=100)  In this system a right angle is divided unto 100 equal parts, called grades.
	doyeded Note 100 101 faxts. called
	erades.
(3)	lir Cular System.
	In this system the unit of
	meaburement of an angle is hadvan
	One radian (1°), is the measure
	of an angle subtended by at the
	centre of a circle by an arc whose
	length is equal to the radias of
	The cacle.
The second secon	