Trigonometry

of: measures on degrees.

Promeasures on radons.

$$\frac{\alpha}{188} = \frac{\beta}{\pi}$$

Remark, ITrad -> 130 degrees.

length of an arc in a cricle,

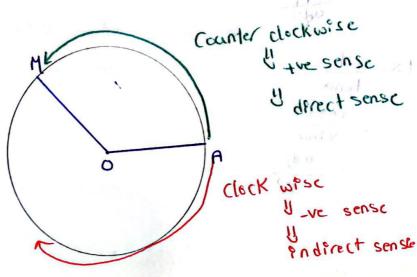
Remarki - Central angle in degrees

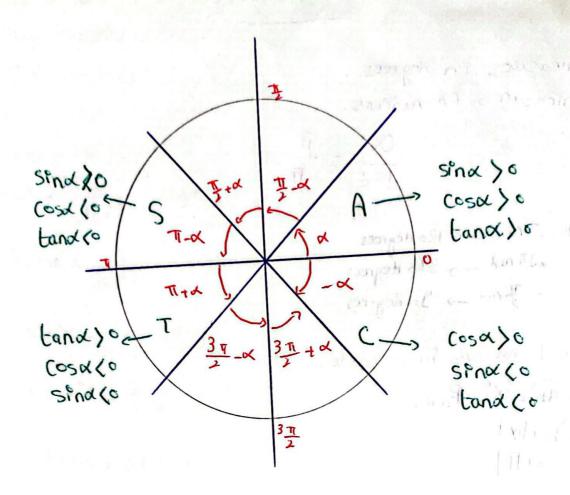
- central angle is radians

Orientation of a circles

alength of trygonometric

number of turns completed till the end of the arc.





Remarki

IF a and b are two complemetary angles, then cosa= sinb. Fundemental Relations:

$$Cos^2 x + spn^2 x = 1$$
 rule

 $Cos^2 x = 1 - spn^2 x = 1$ rule

 $spn^2 x = 1 - cos^2 x$
 $cos^2 x = \frac{1}{1 + ton^2 x}$

rule

tand x cota= 1 rule.

Remarki

The cosine and sine are periodic of period 27.

$$COS(X+9KT)=COSA$$
 KEZ
 $SPn(X+9KT)=SINX$ KEZ

The tangent and cotangent are perfoder of perfod TI.

- $\frac{T}{2}$ and $\frac{3T}{2}$ reverse the trigonometric lines (05x) sind

stad_s cosd

tand - cota

cota -> tana.

-drametrically opposite = sum of the angles = 1800 => Trad. = confunded => same principal measure.

