arangle

Dine of 0 Sin0 =

Cosine Coso

Yangent tano

Cotangent Cofo

secant scco

cosecant coco

angle of
$$A = \angle A = \hat{A}$$

$$\lambda^2 = x^2 + y^2$$

$$Sind = \frac{Opp}{hyp} = \frac{d}{R}$$

$$Cop O = \frac{ady}{hyp} = \frac{X}{R}$$

$$\omega A = \frac{b}{c}$$

$$\tan A = \frac{a}{b}$$

$$S \left(sco = \frac{1}{pino} = \frac{2}{7} \right)$$

$$pecal = \frac{c}{b}$$

$$CAA = \frac{b}{a}$$

$$Sino = \frac{15}{17}$$
 $codo = \frac{8}{17}$ $tamb = \frac{15}{8}$
 $coco = \frac{17}{15}$ $seco = \frac{17}{8}$ $coto = \frac{9}{15}$

$$5 mo = -\frac{4}{5}$$
 $coso = \frac{3}{5}$ $famo = -\frac{4}{3}$
 $csco = -\frac{5}{4}$ $seco = \frac{5}{3}$ $coso = -\frac{3}{4}$

$$\mathcal{J}_{2} > \mathcal{J}_{1}$$

$$\frac{J_2}{x} > \frac{y_1}{x}$$

banus > tan 30°

300

$$\cos \phi = \frac{\sqrt{3}}{2} \qquad \phi \in \widehat{OIV}$$

$$\sin \phi = \frac{1}{2} \qquad \cos \phi = \frac{\sqrt{3}}{2} \qquad / \cos \phi = \frac{1}{\sqrt{3}}$$

$$\csc \phi = -2 \qquad ee \phi = \frac{2}{\sqrt{3}} \qquad \cot \phi = -\sqrt{3}$$

30
$$\cos \theta = -\frac{12}{13}$$
 $\csc Q III$
 $5, n\theta = -\frac{5}{13}$ $\cos \theta = -\frac{12}{13}$ $\tan \theta = \frac{5}{12}$
 $\csc \theta = -\frac{12}{5}$ $\sec \theta = -\frac{13}{12}$ $\cot \theta = \frac{12}{5}$

$$\frac{x^{2} + y^{2} = x^{2}}{x^{2}} = \frac{x^{2}}{x^{2}}$$

$$\left(\frac{x}{x}\right)^{2} + \left(\frac{y}{x}\right)^{2} = 1$$

$$Cos^{2}o + sin^{2}o = 1$$

$$\frac{\cos^2 \sigma}{\cos^2 \sigma} + \frac{\sin^2 \sigma}{\cos^2 \sigma} = \frac{1}{\cos^2 \sigma} \left(\frac{1}{\cos^2 \sigma}\right)^2$$

$$\frac{1}{1 + \tan^2 \sigma} = \sec^2 \sigma$$

$$\frac{\cos^2 \sigma}{\sin^2 \sigma} + \frac{\sin^2 \sigma}{\sin^2 \sigma} = \frac{1}{\sin^2 \sigma}$$

$$\cot^2 \sigma + 1 = \cos^2 \sigma$$

3 tand forx = 3 tand (x2+9 1/x2+9 = 19 found +9 z/9(tan20+1) = 3 / sec20 = 3 seco ABC, C=90° a=6 c=10 b=2(4) Sin A = 3 Cos A = 4 /ano= 3 CNCA = 5 NecA = 5 Cott & 5 of AFD = 90 =>

5:AA = COS B = CO (90°-A)

COS A = sin B