2. degree Comin = 1 degree = 3600 sec 1 rev = 300° Radian 1 means I rad 1º means 1 deg. 20 = 360 1 hev. TT = 1500 45° = 45° Trad = 1 rad. 249.8° = 2498. 10 rad = 1249 Trad I rad = 1 rad 180 $=\left(\frac{150}{77}\right)^{\circ}$ 112 57.3°

$$\frac{4000}{3} \text{ rad} = \frac{4(1600)}{3}$$
= 2400]

= 2400]

6.2 Are length radius Final central angle 10: 1 = in rady Ex 九三/8.2 おと ひとるが、 S = 183. 20 = 273 T' Cm 1 = . 8725 = 8726 0: 39.720.-1500 = 1,725 2700 1500 = 1732785 11.10 PX ≈ . 60 U8 FFS

$$\lambda = 6$$

$$\Delta = 30^{\circ} = 30^{\circ} = 6$$

$$= 6. \frac{\pi}{6}$$

$$= \pi \text{ in } \int$$

$$\frac{Ex}{D} = 1.4 = \frac{14}{10} = \frac{7}{5}$$

$$\frac{1}{2} = \frac{1}{2} \Lambda^{2} O$$

$$= \frac{1}{2} \frac{21^{2}}{10^{2}} \cdot \frac{7}{5}$$

$$= \frac{3.077}{1,000} \text{ m2}$$

$$A = \frac{1}{2} \int_{1}^{2} dt$$

$$= \frac{1}{2} (30)^{2} \frac{11}{2}$$

$$= \frac{900}{4} 17$$

$$5 = ro$$

$$A = \frac{1}{3}r^{2}o$$

$$\frac{o(rad)}{unitless}$$

Speed =
$$|\mathcal{N}| = \frac{distance}{time} = \frac{S}{t}$$
 $S = S \text{ cm}, t = 2$
 $V = \frac{S}{t}$
 $= \frac{S}{t} \text{ cm/see}$

Angular vector ty compa = $\frac{S}{t}$
 $S = \frac{S}{t} \text{ cm/see}$
 $S = \frac{S}{t} \text{ cm/see}$

[N=rw]

 $\frac{\#3}{10^{\circ} = 10^{\circ} \frac{\pi}{180^{\circ}} = \frac{\pi}{18}}$ And

10 = 7 1

y y x

$$Coso = \frac{x}{x}$$
 and hype

$$Csco = \frac{1}{5ino} = \frac{\Lambda}{2}$$

4, be >0

2

$$Cofo = \frac{1}{a}$$

 $3, 4 \rightarrow 5$ $8, 15 \rightarrow 17$ $6, 12 \rightarrow 13$

$$51/10 = \frac{15}{17}$$
 $tano = \frac{15}{8}$ $tano = \frac{15}{8}$ $coco = \frac{17}{15}$ $coco = \frac{17}{15}$ $coco = \frac{17}{15}$

$$(16,-12) \quad 4 \quad (4,-3) \longrightarrow 5$$

$$5:n_0 = -\frac{3}{5} \quad cop_0 = \frac{4}{5} \quad tan_0 = -\frac{3}{4}$$

$$coc_0 = -\frac{5}{3} \quad pcc_0 = \frac{5}{4} \quad cof_0 = -\frac{4}{3}$$

$$fan 30° = \frac{y_1}{x} \qquad fan 40° = \frac{y_2}{x}$$

$$X = \frac{y_1}{fan 30°} \qquad X = \frac{y_2}{fan 40°}$$

 $\frac{J_2 > J_1}{\frac{J_2}{x} > \frac{J_1}{x}}$ $tanyo^2 > tanyo^2$

Coso =
$$\frac{\sqrt{3}}{2}$$
 $\sqrt{6}$ $\sqrt{3}$ $\sqrt{5}$ $\sqrt{10}$ $\sqrt{4}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{3}$

Ratio tand = 5111

Coto = Cos o

Reciprocal

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

$$\frac{(\omega s^2 a)}{\cos^2 a} + \frac{\sin^2 a}{\cos^2 a} = \frac{1}{\cos^2 a}$$

$$S_{1} + 0 = -\frac{12}{13} \quad Cos = -\frac{12}{13} \quad fand = \frac{5}{12}$$

$$Cos = -\frac{12}{13} \quad cos = -\frac{12}{13} \quad cos = \frac{12}{12}$$

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$$Cos = -\frac{12}{12} \quad cos = \frac{12}{12} \quad cos = \frac{1$$

GI
$$(80^{\circ}-30^{\circ}=150^{\circ})$$
 $(-,+)$
GI $(80^{\circ}+30^{\circ}=210^{\circ})$ $(-,-)$
GE $(80^{\circ}-30^{\circ}=310^{\circ})$ $(+,-)$

Nadian \overline{D} $G \Gamma$ $G \overline{D} \qquad (n-1)\overline{D}$ $G \overline{D} \qquad (n+1)\overline{D}$ $G \overline{D} \qquad (2n-1)\overline{D}$

Co-function right \triangle $A+B=90^{\circ}$ $COSA=SINB=SIN (90^{\circ}-A)$ $SINA=COSB=SIN (90^{\circ}-A)$

 $\frac{2.2}{6,8,11}$ (20-30) m exam 6,8,11 20,29

6.2 # 12 $(10, -24) \qquad (5, -12) \rightarrow 13$ $5 \text{ in } 0 = \frac{-12}{13} \qquad \text{Coso} = \frac{5}{13} \qquad \text{fand} = -\frac{12}{5}$ $\text{Coxo} = -\frac{12}{12} \qquad \text{seco} = \frac{13}{5} \qquad \text{Coto} = -\frac{5}{12}$ $\# 33 \qquad 5 \text{ in } 0 = -\frac{5}{12} \qquad 0 \in 6 \text{ III} \qquad 8, 15 \rightarrow 17$

33 Sino = $-\frac{8}{17}$ OE 6 III $8,15 \rightarrow 1$ Sino = $-\frac{8}{17}$ Coo = $-\frac{15}{12}$ tamo = $\frac{8}{15}$ Coc = $-\frac{17}{15}$ or $0 = \frac{15}{15}$ coto = $\frac{15}{15}$

 $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$