

RADIANS (Sec. 3.1) $60^{\circ} \cdot 5 \text{ cm} = \frac{300}{49 \cdot \text{cm}}$ $\frac{11}{3} \cdot 5 \text{ cm} = \frac{5}{3} \cdot \frac{1}{60} \cdot \frac{1}{3} \cdot \frac{1}{60} \cdot \frac{1}{6$

$$\frac{1 \text{ rad}}{r} = \frac{360}{20}$$

Degrees -> Rads *II.

271 rad - 10 ft = 201 ft.

$$\frac{13\pi}{9} \cdot \frac{180^{\circ}}{4} = \frac{13.40^{\circ}}{9} = 260^{\circ}$$

SOLVING RIGHT D'S

soh cah toa

Scar had a heap

of apples

Sin A = Dopp

hap

Cos A = adj

hyp

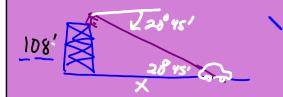
tan A = 20p

adj

Angle of elevation

Angle of Depression

1=60 minutes



The angle of depression from the top of the tower to the car is is 20 45'. How far is the car from the base of the tower?

x. tan 20°45' =
$$\frac{108}{x}$$
 = $\frac{108}{x}$ = $\frac{108}{x}$ = $\frac{108}{x}$ = 285

A gold deposit has been located 38' directly under NCHS. If the length of the diagonal tunnel will be 62', what is the angle of depression?

$$\begin{array}{c|c}
A & School \\
? & 62 \\
\hline
? & 62 \\
\hline
SIN A = \frac{38}{62} \\
SIN & (38/62)
\end{array}$$

$$A = 38^{\circ}$$

If need Deg/Min/Sec:
go to template Key.

TRIG FUNCTIONS

Sin
$$\theta = \frac{y_{our}}{stick}$$
 CSC $\theta = \frac{r}{y}$

Sec 1.4 What quadrant?

$$5m\theta > 0 + cot\theta < 0 I$$
 $\frac{|X|}{X|X}$

Sec 0 < 0 CSC 0 < 0 III

$$\sin \theta = \frac{1}{r} \csc \theta = \frac{r}{y}$$

$$\cos \theta = \frac{x}{r} \quad \sec \theta = \frac{r}{x}$$

$$\tan \theta = \frac{x}{x}$$
 $\cot \theta = \frac{x}{y}$

Angle θ passes through the point (-2,5). Find sin θ .

$$5 \sqrt{\frac{\sqrt{29}}{1}} = (-2)^{2} + 5^{2} = r^{2}$$

$$-2 + \sqrt{29} = \sqrt{29} = \sqrt{2}$$

If
$$\cos \theta = \frac{-3}{7} \frac{x}{r}$$

 $+ \cot \theta > 0$
find $\csc \theta$. $-2\sqrt{10}$

$$CSC \theta = \frac{V}{y}$$

$$= \frac{7}{400} \cdot \sqrt{y^2} = \sqrt{400}$$

$$-2\sqrt{10} \cdot \sqrt{10}$$

$$-2\sqrt{10} \cdot \sqrt{10}$$

$$-2\sqrt{10} \cdot \sqrt{10}$$