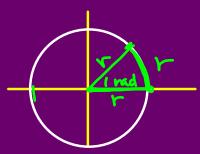


RADIANS (Sec. 3.1) 60°. 5 cm = 300 dyor



$$\frac{1rd}{r} = \frac{360^{\circ}}{2\pi r}$$

211 rad = 360°

188=11-278 = 垩

271 rad - 10 ft = 20m ft.

140° Tred

Radians -> Degrees

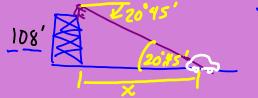
* 180°

1377 + 180° = 13.440° = 260°

SOLVING RIGHT A'S

Angle of elevation

Angle of Depression



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?

$$x \cdot \tan 20^{\circ}45' = \frac{108}{x} \cdot x$$
 $x \cdot \tan 20^{\circ}45' = 108$
 $x \cdot \tan 20^{\circ}45' = 108$

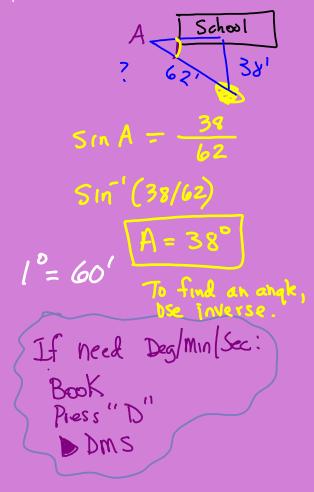
soh cah toa

$$Sin A = \frac{opp}{hyp}$$

$$Cos A = \frac{opp}{hyp}$$

$$tan A = \frac{opp}{adj}$$

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?



TRIG FUNCTIONS

Sin
$$\theta = \frac{y}{y}$$
 CSC $\theta = \frac{r}{y}$

Strek = roten

Cos $\theta = \frac{r}{x}$ Sec $\theta = \frac{r}{x}$

Crazy = $\frac{xybphone}{right}$ Cot $\theta = \frac{x}{y}$

Through = $\frac{y}{x}$

Star CSC $\theta = \frac{r}{y}$

The Cot $\theta = \frac{r}{y}$

The Cot $\theta = \frac{r}{y}$

Cos $\theta = \frac{r}{y}$

The Cot $\theta = \frac{r}{y}$

The Cot $\theta = \frac{r}{y}$

Sec 1.4 What quedrant?

Sm 0 > 0 + cot 0 < 0

IT XX

Sec 0 < 0 csc 0 < 0

TIT

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

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

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

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

If
$$\cos \theta = \frac{-3}{7} \times \frac{1}{7}$$

 $+ \cot \theta > 0$
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