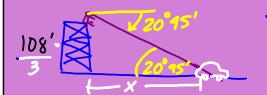


SOLVING RIGHT D'S

Angle of elevation



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?

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

$$X = \frac{108}{\tan 30'45'}$$

$$X = 285 \text{ ft.}$$

Sin $A = \frac{0}{h}$ $\cos A = \frac{a}{h}$ $\tan A = \frac{0}{a}$

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?

$$\sin A = \frac{38}{62}$$

 $\sin^{1}(38/62)$

$$|^{0} = 60^{\prime}$$
 Seconds
$$|^{1} = 60^{\prime\prime}$$

If need Deg/min/Sec:

Book

Piess" D"

Dms

TRIG FUNCTIONS

Sin
$$\theta = \frac{y_{our}}{shek} csc \theta = \frac{r}{y}$$

cos
$$\theta = \frac{x_0 \cdot p_{\text{Sec}}}{Y_1 \cdot q_h t} = \frac{r}{x}$$

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

Angle θ passes through the point (-2.5). Find $\sin \theta$.

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

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

$$= \frac{5\sqrt{29} \cdot \sqrt{29}}{29} = \frac{7}{2}$$

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

$$+ cot \theta \ge 0$$

$$find csc \theta$$
.

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

$$= \frac{7\sqrt{10}}{100}$$

$$y = \frac{1}{2\sqrt{10}}$$

$$y = \frac{1}{2\sqrt{10}}$$