



SOME APPLICATIONS OF TRIGONOMETRY

Line of sight

The line of sight is the line drawn from the eye of an observer to the point in the object viewed by the observer.

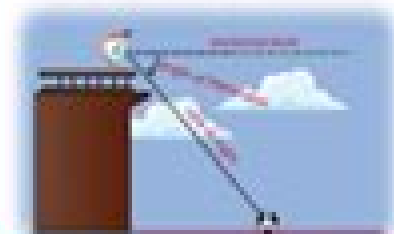
Angle of Elevation

The angle of elevation of an object viewed is the angle formed by the line of sight with the horizontal when it is above the horizontal level, i.e., the observer is lower than level of the object.

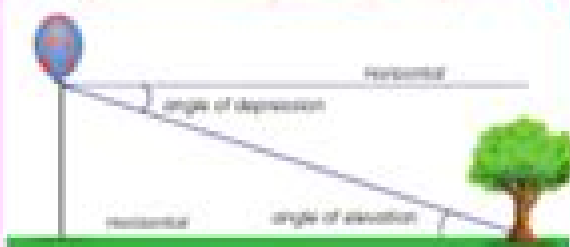


Angle of Depression

The angle of depression of an object viewed is the angle formed by the line of sight with the horizontal when it is below the horizontal level, i.e., the observer is higher than level of the object.



Angle of Elevation is equal to Angle of Depression



The height or length of an object or the distance between two distant objects can be determined with the help of trigonometric ratios.

Width of an object

To determine width AB



From figure $AB + AC = 100$
 In right $\triangle ABC$, $\angle C = 30^\circ$, $AC = 100$
 $\tan 30^\circ = \frac{AB}{AC}$ i.e., $AB = 100 \tan 30^\circ$
 In right $\triangle ABC$, $\angle C = 30^\circ$, $AC = 100$
 $\sec 30^\circ = \frac{BC}{AC}$ i.e., $BC = 100 \sec 30^\circ$
 $AB = (100 \tan 30^\circ) + (100 \sec 30^\circ) = 100(1 + \frac{1}{\sqrt{3}})$

Distance between two objects

Find a width



In right $\triangle ABC$, $\angle C = 30^\circ$
 $\tan 30^\circ = \frac{AB}{BC}$ i.e., $AB = BC \tan 30^\circ$
 In right $\triangle BCD$, $\angle C = 60^\circ$
 $\tan 60^\circ = \frac{CD}{BC}$ i.e., $CD = BC \tan 60^\circ$
 $AB + CD = BC \tan 30^\circ + BC \tan 60^\circ = BC(1 + \sqrt{3})$

Height/Length of an object

To determine height of tree BC

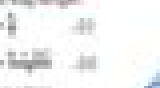
With a tree



In right $\triangle ABC$, $\angle A = 30^\circ$
 $\tan 30^\circ = \frac{BC}{AC}$ i.e., $BC = AC \tan 30^\circ$

To determine flag length CD

Find flag length



In right $\triangle ABC$, $\angle A = 30^\circ$
 $\tan 30^\circ = \frac{BC}{AC}$ i.e., $BC = AC \tan 30^\circ$

To determine height of an object AB



In right $\triangle ABC$, $\angle C = 30^\circ$
 $\tan 30^\circ = \frac{AB}{BC}$ i.e., $AB = BC \tan 30^\circ$

Application Of Trigonometry Key

David Baker



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