



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.

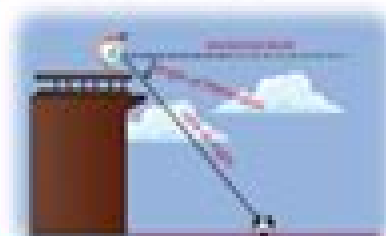
Angle of Elevation

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 below the level of the object.

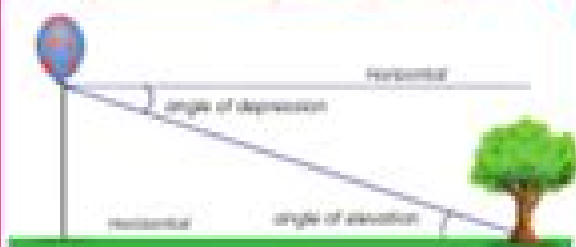


Angle of Depression

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 above the 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 $AB \perp AC \Rightarrow \angle BAC = 90^\circ$
 In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{AB}{AC}$ i.e., $AB = 10 \tan 60^\circ$
 In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{AB}{AC}$ i.e., $AB = 10$
 $AB = 10 \tan 60^\circ = 10 \times \sqrt{3} = 10\sqrt{3}$

Distance between two objects

Find a width



In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{AB}{AC}$ i.e., $AB = 10 \tan 60^\circ$
 $AB = 10 \tan 60^\circ = 10 \times \sqrt{3} = 10\sqrt{3}$

To determine the height of tree BC

With a tree



In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{BC}{AC}$ i.e., $BC = 10 \tan 60^\circ$
 $BC = 10 \tan 60^\circ = 10 \times \sqrt{3} = 10\sqrt{3}$

Height/Length of an object

To determine flag length CD

With a flag



In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{CD}{AC}$ i.e., $CD = 10 \tan 60^\circ$
 $CD = 10 \tan 60^\circ = 10 \times \sqrt{3} = 10\sqrt{3}$

To determine height of an object AB



In right $\triangle ABC$, $\angle C = 60^\circ$, $AC = 10$
 $\tan 60^\circ = \frac{AB}{AC}$ i.e., $AB = 10 \tan 60^\circ$
 $AB = 10 \tan 60^\circ = 10 \times \sqrt{3} = 10\sqrt{3}$

Applications Of Trigonometry Tesccc Key

JL Elias



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