



SOME APPLICATIONS OF TRIGONOMETRY

Line of Sight

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

Angle of Elevation is equal to Angle of Depression



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 case when we have to look up at 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 case when we have to look down at the object.



The height or weight of an object or the distance between two distant objects can be determined with the help of trigonometry using

Height of an object

To determine height AB



$$\begin{aligned} \text{Since } \angle AOB &= 90^\circ \text{ and } \angle OAB = 90^\circ \\ \text{In right } \triangle OAB, \tan 90^\circ &= \frac{AB}{OA} \\ \text{But } \tan 90^\circ &= \infty \\ \text{So, } \infty &= \frac{AB}{OA} \\ \text{or, } AB &= \infty \cdot OA \end{aligned}$$

Distance between two objects



$$\begin{aligned} \text{Since } \angle AOB &= 90^\circ \text{ and } \angle COD = 90^\circ \\ \text{In right } \triangle AOB, \tan 90^\circ &= \frac{AB}{OA} \\ \text{But } \tan 90^\circ &= \infty \\ \text{So, } \infty &= \frac{AB}{OA} \\ \text{or, } AB &= \infty \cdot OA \end{aligned}$$

To determine the height of tree BD



$$\begin{aligned} \text{Since } \angle ABD &= 90^\circ \text{ and } \angle ADB = 90^\circ \\ \text{In right } \triangle ABD, \tan 90^\circ &= \frac{BD}{AD} \\ \text{But } \tan 90^\circ &= \infty \\ \text{So, } \infty &= \frac{BD}{AD} \\ \text{or, } BD &= \infty \cdot AD \end{aligned}$$

Height/Length of an object

To determine flag length CD



$$\begin{aligned} \text{Since } \angle ACD &= 90^\circ \text{ and } \angle ACD = 90^\circ \\ \text{In right } \triangle ACD, \tan 90^\circ &= \frac{CD}{AC} \\ \text{But } \tan 90^\circ &= \infty \\ \text{So, } \infty &= \frac{CD}{AC} \\ \text{or, } CD &= \infty \cdot AC \end{aligned}$$

To determine height of an object AB



$$\begin{aligned} \text{Since } \angle AOB &= 90^\circ \text{ and } \angle OAB = 90^\circ \\ \text{In right } \triangle AOB, \tan 90^\circ &= \frac{AB}{OA} \\ \text{But } \tan 90^\circ &= \infty \\ \text{So, } \infty &= \frac{AB}{OA} \\ \text{or, } AB &= \infty \cdot OA \end{aligned}$$

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JL Elias

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