



# 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.

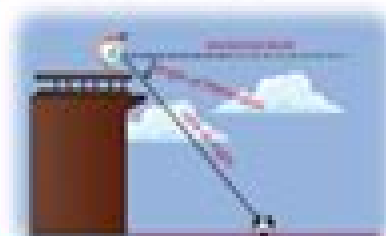
## Angle of Elevation

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  $\triangle ABC$ ,  $\angle C = 90^\circ$ ,  $\angle B = 30^\circ$   
 $\tan 30^\circ = \frac{AC}{AB}$  i.e.,  $AB = 3\sqrt{3}AC$   
 In right  $\triangle ABC$ ,  $\angle C = 90^\circ$ ,  $\angle A = 60^\circ$   
 $\tan 60^\circ = \frac{AC}{AB}$  i.e.,  $AB = \frac{AC}{\sqrt{3}}$   
 $AB = 3\sqrt{3}AC = \frac{AC}{\sqrt{3}} \Rightarrow 3\sqrt{3}AC = \frac{AC}{\sqrt{3}}$

### Distance between two objects

Find a width



In right  $\triangle ABC$ ,  $\angle C = 90^\circ$ ,  $\angle B = 30^\circ$   
 $\tan 30^\circ = \frac{AC}{AB}$  i.e.,  $AB = 3\sqrt{3}AC$   
 In right  $\triangle CDE$ ,  $\angle E = 90^\circ$ ,  $\angle D = 60^\circ$   
 $\tan 60^\circ = \frac{CE}{DE}$  i.e.,  $DE = \frac{CE}{\sqrt{3}}$

### To determine the height of tree BD

With a tree



In right  $\triangle ABD$ ,  $\angle B = 90^\circ$ ,  $\angle A = 30^\circ$   
 $\tan 30^\circ = \frac{BD}{AB}$  i.e.,  $BD = \frac{AB}{\sqrt{3}}$   
 In right  $\triangle ACD$ ,  $\angle C = 90^\circ$ ,  $\angle A = 60^\circ$   
 $\tan 60^\circ = \frac{CD}{AC}$  i.e.,  $CD = \frac{AC}{\sqrt{3}}$

## Height/Length of an object

### To determine flag length CD

Find flag length

$$\tan \theta = \frac{CD}{AD}$$

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### To determine height of an object AB



In right  $\triangle ABC$ ,  $\angle B = 90^\circ$ ,  $\angle C = 30^\circ$   
 $\tan 30^\circ = \frac{AB}{BC}$  i.e.,  $AB = \frac{BC}{\sqrt{3}}$   
 In right  $\triangle ACD$ ,  $\angle C = 90^\circ$ ,  $\angle D = 60^\circ$   
 $\tan 60^\circ = \frac{AD}{CD}$  i.e.,  $AD = \frac{CD}{\sqrt{3}}$

# Applications Of Trigonometry Tesccc Key

**Oswaal Editorial Board**



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