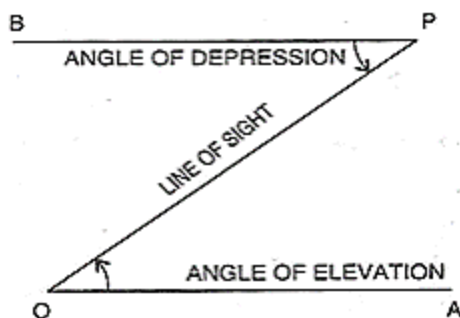


Board -CBSE

Class -10th

Topic - Applications of Trigonometry

- The line drawn from the eye of an observer to a point in the object where the person is viewing is called the line of sight.



In the above figure point,  $O$  is the eye of the observer, and point  $P$  is an object. The line joining both points  $O$  and  $P$  is the line of sight.

- The angle formed by the line of sight with the horizontal when the object is above the horizontal level is called the angle of elevation.  
In the above figure,  $\angle POA$  is the angle of elevation.
- The angle formed by the line of sight with the horizontal when the object is below the horizontal level is called the angle of depression.  
In the above figure,  $\angle BPO$  is the angle of depression.
- The height of an object or the distance between distant objects can be determined with the help of trigonometric ratios.