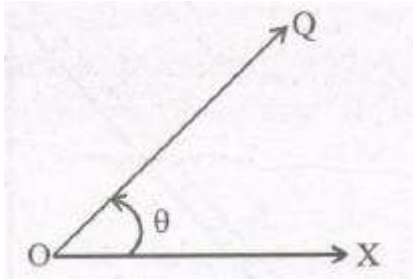


9. Some Applications of Trigonometry

LINE OF SIGHT

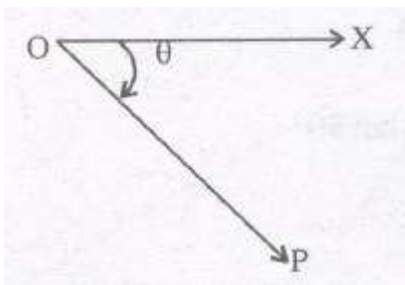
Suppose we are viewing an object standing on the ground. Clearly, the line of sight (or line of vision) to the object is the line from our eyes to the object, we are viewing.

(A) Angle of elevation :



Let 'O' be the eye of observer and Q be an object and OX is a horizontal line then $\angle XOQ$ is called the angle of elevation and generally it is denoted by Theeta or Phie i.e 'θ' or φ.

(b) Angle of Depression: 'P' be the object lies below the horizontal



line OX, then $\angle XOP$ is called the angle of depression and is denoted by 'θ' or 'φ'

NOTE: For solving the height and distances problem, draw figure, and see the relation between known to unknown.