

# Trigonometry Important Points and Results

- ◆ All right triangles with  $\theta$  as one of the angle are similar. Hence the trigonometric ratios defined through such right angle triangles do not depend on the triangle chosen.
- ◆ Though the above identities are true for any angle  $\theta$  , we will consider the six trigonometric ratios only for  $0^\circ < \theta < 90^\circ$
- ◆ Angle of Depression and Angle of Elevation are equal because they are alternative angles.

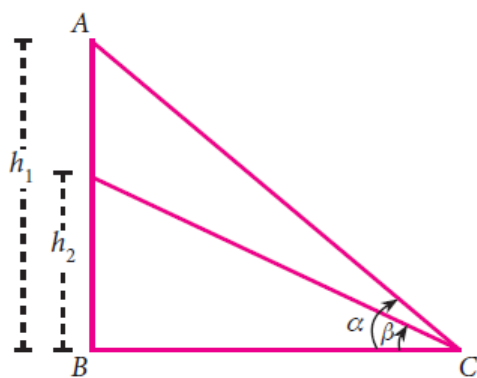


➤ Angle of Depression and Angle of Elevation are equal because they are alternative angles.



➤ From a given point, when height of a object increases the angle of elevation increases.

If  $h_1 > h_2$  then  $\alpha > \beta$



➤ The angle of elevation increases as we move towards the foot of the vertical object like tower or building.

If  $d_2 < d_1$  then  $\beta > \alpha$

