

1. A lighthouse is $80m$ high. The angle of elevation of its top from a point $80m$ away from its foot along the same horizontal line is:
 - (a) 60°
 - (b) 45°
 - (c) 30°
 - (d) 90°
2. Two lamp posts AB and CD each of height $100m$ are on either side of the road. P is a point on the road between the two lamp posts. The angle of elevation of the top of the lamp posts from the point P are 60° and 40° . Find the distances PB and CD .