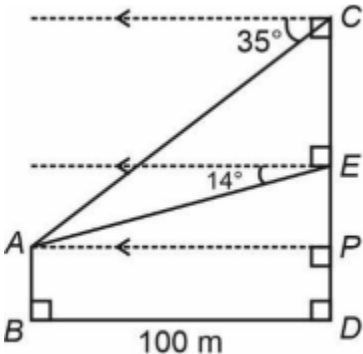
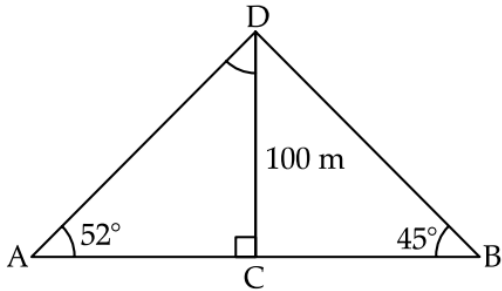


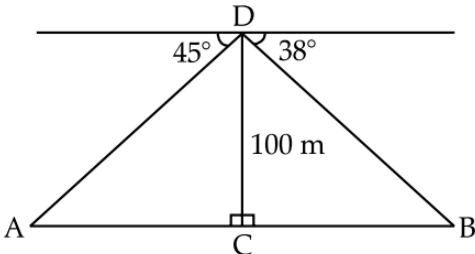
PREVIOUS YEAR QUESTIONS
(Chapterwise)

CHAPTER NAME: HEIGHTS AND DISTANCES

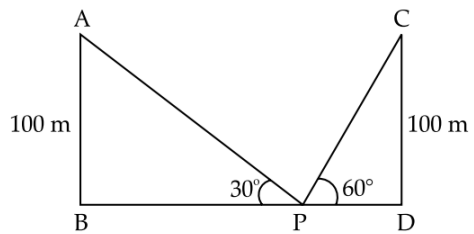
<u>SUMMARY POINTS</u>	

Q.NO.: 1	In the given diagram, AB is a vertical tower 100 m away from the foot of a 30 storied building CD. The angles of depression from the point C and E. (E being the mid-point of CD), are 35° and 14° respectively. (Use mathematical table for the required values rounded off correct to two places of decimals only) Find the height of the:  (a) tower AB (b) building CD	YEAR [2024]
ANS.:		
TOPIC:	Page No.:	Ref. Link

Q.NO.: 1	The angle of elevation of the top of a 100 m high tree from two points A and B on the opposite side of the tree are 52° and 45° respectively. Find the distance AB, to the nearest metre. 	YEAR [2024]
ANS.:		
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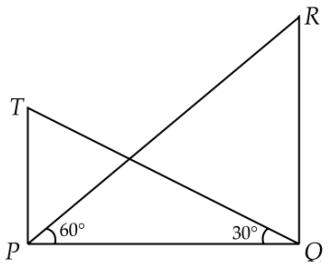
Q.NO.: 2	From the top of a tower 100 m high a man observes the angles of depression of two ships A and B, on opposite sides of the tower as 45° and 38° respectively. If the foot of the tower and the ships are in the same horizontal line find the distance between the two ships A and B to the nearest metre. (Use Mathematical Tables for this question.) 	YEAR [2023]
ANS.:		
TOPIC:	Page No.:	Ref. Link

Q.NO.: 3	A lighthouse is 80 m high. The angle of elevation of its top from a point 80 m away from its foot along the same horizontal line is: (a) 60° (b) 45° (c) 30° (d) 90°	YEAR [2022]
ANS.:		
TOPIC:	Page No.:	Ref. Link

Q.NO.: 4	Two lamp posts AB and CD each of height 100 m are on either side of the road. P is a point on the road between the two lamp posts. The angles of elevation of the top of the lamp posts from the point P are 60° and 30°. Find the distances PB and PD. 	YEAR [2022]
ANS.:		
TOPIC:	Page No.:	Ref. Link

Q.NO.: 5	From the top of a cliff, the angle of depression of the top and bottom of a tower are observed to be 45° and 60° respectively. If the height of the tower is 20 m. Find : (i) the height of the cliff. (ii) the distance between the cliff and the tower.	YEAR [2020]
ANS.:		
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Q.NO.: 6	A man observes the angle of elevation of the top of the tower to be 45° . He walks towards it in a horizontal line through its base. On covering 20 m the angle of elevation changes to 60° . Find the height of the tower correct to 2 significant figures.	YEAR [2019]
ANS.:		
TOPIC:	Page No.:	Ref. Link

Q.NO.: 7	The angle of elevation from a point P of the top of a tower QR, 50 m high is 60° and that of the tower PT from a point Q is 30°. Find the height of the tower PT, correct to the nearest metre. 	YEAR [2018]
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