

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

SOME APPLICATIONS OF TRIGONOMETRY

SESSION -2024-25

CLASS - 10th

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Time : 1 hr - : Some Application of Trigonometry :- mm:

Q. 1. A circus artist is climbing a 20m long rope, which is tightly stretched and tied from the top of a vertical pole to the ground. Find the height of the pole, if the angle made by the rope with the ground level is 30° .



Q. 2. The angle of Elevation of the top of a tower from a point on the ground, which is 25m away from the foot of the tower, is 60° . Find the height of the tower.



Q. 3. An observer 1.5m tall is 28.5m away from a chimney. The angle of Elevation of the top of the chimney from her eye is 45° . What is the height of the chimney?



Q. 4. A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making an angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8m. Find the height of the tree.

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Q. 5. A tower stand vertically on the ground. From a point on the ground which is 15m away from the foot of the tower, the angle of Elevation of the top of the tower is found to be 60° . Find the height of the tower.

Q. 6. From a point on the ground, the angle of Elevation of the bottom and the top of a transmission tower fixed at the top of a 20m high building are 45° and 60° respectively. Find the height of the tower.



Q. 7. Two poles of equal heights are ~~standing~~ standing opposite each other on either side of the road which is 80m wide. From a point between them on the road the angle of Elevation of the top of the poles are 60° and 30° respectively. Find the height of the poles and the distance of the point from the poles.



Q. 8. As observed from the top of a 75 m high Lighthouse from the sea-level, behind the other on the same side of a light house, find the distance between the two ships.

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Q.9. From a point P on the ground the angle of elevation of the top of a 10m tall building is 30° . A flag is hoisted at the top of the building and the angle of elevation of the top of the flagstaff from P is 45° . Find the length of the flagstaff and the distance of the building from the point P ($\sqrt{3} = 1.732$)



Q.10. The angle of depression of the top and the bottom of an 8m tall building from the top of a multi-storeyed building are 30° and 45° respectively. Find the height of the multi-storeyed building and distance between the two buildings.



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