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Sample Question Paper - SET 1

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Class	X	Subject	Mathematics (041)
Chapter	9 - Some Applications of Trigonometry	Time Allowed	15 Minutes
Maximum Marks	8	Date	_____

GENERAL INSTRUCTIONS:

1. This question paper contains **4 questions** from Chapter 9 - Some Applications of Trigonometry.
2. All questions are compulsory.
3. Question 1 carries 1 mark.
4. Question 2 carries 2 marks.
5. Question 3 carries 2 marks.
6. Question 4 carries 3 marks.
7. Use of calculator is not permitted.
8. Show all steps of your calculations clearly.
9. Draw neat diagrams wherever required.
10. Use $\sqrt{3} = 1.732$, $\sqrt{2} = 1.414$ wherever required.

HOW TO SUBMIT:

1. Solve this question paper in your notebook or on loose sheets.

2. Clearly write your **Name, CBSE Roll Number (if available), School Name, Place, and Date** on the first page.
3. Upload your solved paper at our website: **www.mathlove.in**
4. Check your **detailed report card on the website** after evaluation.
5. For any queries or assistance, WhatsApp us at **+91-7869553517**

SECTION A - 1 MARK QUESTION

Q1. A ladder makes an angle of 60° with the ground when placed against a wall. If the foot of the ladder is 4.6 m away from the wall, find the length of the ladder. **[1]**

SECTION B - 2 MARKS QUESTIONS

Q2. From the top of a cliff 25 m high, the angle of elevation of a tower is found to be equal to the angle of depression of the foot of the tower. Find the height of the tower. **[2]**

Q3. A vertical pole stands on the ground. From a point on the ground, 25 m away from the foot of the pole, the angle of elevation of the top is 60°. Find the height of the pole. (Take √3 = 1.732) **[2]**

SECTION C - 3 MARKS QUESTION

Q4. From the top of a building 60 m high, the angles of depression of the top and bottom of a vertical lamp post are observed to be 30° and 60° respectively. Find:
(i) The horizontal distance between the building and the lamp post
(ii) The height of the lamp post
(Use √3 = 1.732) **[3]**

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SET 1 - Applications of Trigonometry