

**INDIAN SCHOOL SOHAR**  
**FORMATIVE ASSESSMENT- III**  
**SUBJECT: MATHEMATICS**

**SET-I**

**CLASS: X**  
**DATE: 21 .01. 15**

**MARKS: 20**  
**TIME: 40 minutes**

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**GENERAL INSTRUCTIONS:**

- All questions are compulsory.
  - The question paper consists of 9 questions divided into 4 sections A,B,C and D. Section A comprises of 3 questions of 1 mark each, section B comprises of 2 questions of 2 marks each, section C comprises of 3 questions of 3 marks each and section D comprises of 1 question of 4 marks.
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**SECTION A**

1. Write the next term of the AP  $\sqrt{8}, \sqrt{18}, \sqrt{32}$
2. Find the 10<sup>th</sup> term from the end of the AP 8, 10 12, ....., 126.
3. Find p if  $2p + 1, 13, 5p - 3$  are in AP.

**SECTION B**

4. Prove that tangents drawn at the ends of a diameter of a circle are parallel.
5. Find the length of the tangent drawn from a point whose distance from the centre is 25cm. Given that radius of the circle is 7cm.

**SECTION C**

6. Find the sum:  $2 + 4 + 6 + \dots + 200$
7. Prove that the parallelogram circumscribing a circle is a rhombus.
8. The angle of elevation of the top of a tower from two points at a distance of 4m and 9m from the base of the tower and in the same straight line with it are complementary. Find the height of the tower.

**SECTION D**

9. The angle of elevation of the top of a tower from a point A on the ground is  $30^\circ$ . On moving a distance of 20 m towards the foot of the tower to a point B, the angle of elevation increases to  $60^\circ$ . Find the height of the tower and the distance of the tower from the point A.

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