# CBSE Class 10 Maths Sample Paper SA 2 Set 4

#### SUBJECT: MATHEMATICS CLASS: X

MAX. MARKS: 90 DURATION: 3 HRS

#### General Instructions:

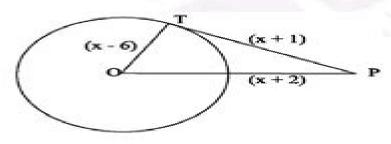
- 1. All questions are compulsory.
- Question paper is divided into four sections: Section A consists 4 questions each carry 1 marks, Sections B consists 6 questions each carry 2 marks, Sections C consists 10 questions each carry 3 marks and Sections D consists 11 questions each carry 4 marks.
- 3. There is no overall choice.
- 4. Use of Calculator is prohibited.

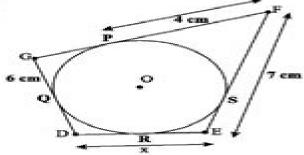
#### SECTION - A

- Find the value of k for which equation 9x<sup>2</sup> + 8xk + 8 = 0 has equal roots.
- In a circle with centre O, AB and CD are two diameters perpendicular to each other. Find the length of chord AC.
- A tower subtends an angle of 30° at a point on the same level as its foot. At a second point 'h'
  metres above the first, the depression of the foot of the tower is 60°. Find the height of the tower.
- Two different dice are tossed together. Find the probability that the product of the two numbers on the top of the dice is 8.

#### SECTION - B

- 5. Solve the equation:  $4x^2 4a^2x + (a^4 b^4) = 0$
- In the below figure, find the actual length of sides of ΔΟΤΡ.





- 7. In the above sided figure, find the value of x.
- The sum of 4<sup>th</sup> term and 8<sup>th</sup> term of an AP is 24 and the sum of 6<sup>th</sup> and 10<sup>th</sup> terms is 44. Find the AP.
- If the points A(-3, 0), B(1, -3) and C(4, 1) are the vertices of an isosceles right-angled triangle, find the area of this triangle.
- For what value of p are the points A(-3, 9), B(2, p) and C(4, -5) are collinear.

# **Class 10 Sample Paper Sa2 Maths**

Shasha Hu

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