

Maharashtra State Board

Class IX Mathematics – Geometry

Board Paper 1

Time: 2 hours

Total Marks: 40

Note: - (1) All questions are compulsory.
(2) Use of calculator is not allowed.

1. Attempt any five sub-questions from the following:

5

- An exterior angle of a triangle is 80° and two interior opposite angles are equal. Find the measure of each of these angles.
- In the given figure, $AB = AC$ and $\angle ACD = 105^\circ$, find $\angle BAC$.

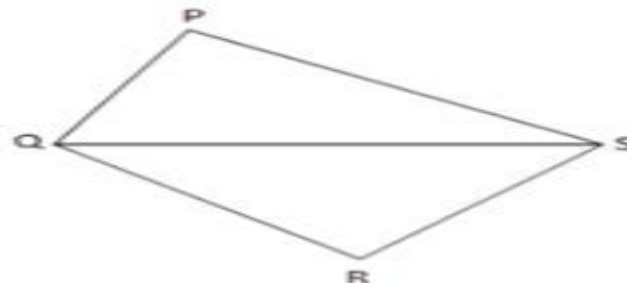


- If P is the centre of the circle with radius 6.7 cm, $d(P, R) = 5.7$ cm, find the position of the point R with respect to the circle.
- Find the distance between the points A(2, 5) and B(-6, 8).
- Evaluate: $\frac{\cos 80^\circ}{\sin 10^\circ} + \cos 59^\circ \times \operatorname{cosec} 31^\circ$
- The side of a square-shaped field is 300 m long. Find the cost of leveling the field at the rate of Rs.1.25 per m^2 .

2. Attempt any four sub-questions from the following:

8

- In $\square PQRS$, side QS is the angle bisector of $\angle PQR$ and $\angle PSR$. Prove that: $\triangle PQS \cong \triangle RQS$ and $\angle P \cong \angle R$.



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