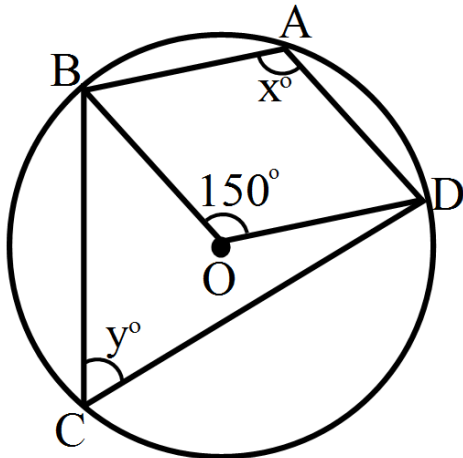


Q1. Express in the form of  $\frac{p}{q} : 0.\overline{38} + 1.\overline{27}$ .

5 Marks

Q2. In the given figure, O is the centre of a circle and  $\angle BOD = 150^\circ$ . Find the values of x and y.

5 Marks



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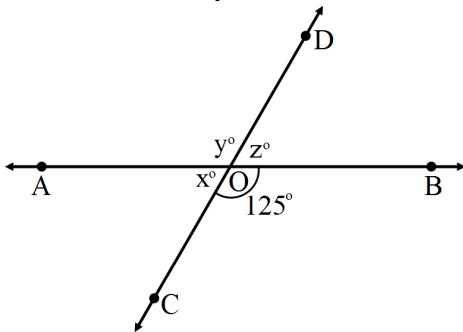
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Q3. In the given figure, the two lines AB and CD intersect at a point O such that  $\angle BOC = 125^\circ$ . Find the values of x, y and z.

5 Marks



Q4. Express  $0.6 + 0.\overline{7} + 0.4\overline{7}$  in the form  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .

5 Marks

Q5. Prove that:

5 Marks

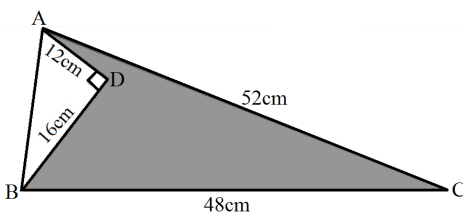
$$\frac{2^{\frac{1}{2}} \times 3^{\frac{1}{3}} \times 4^{\frac{1}{4}}}{10^{-\frac{1}{5}} \times 5^{\frac{3}{5}}} \div \frac{3^{\frac{4}{3}} \times 5^{-\frac{7}{5}}}{4^{-\frac{3}{5}} \times 6} = 10$$

Q6. The surface area of a sphere of radius 5cm is five times the area of the curved surface of a cone of radius 4cm. Find the height of the cone.

5 Marks

Q7. Find the area of the shaded region in the figure given below.

5 Marks

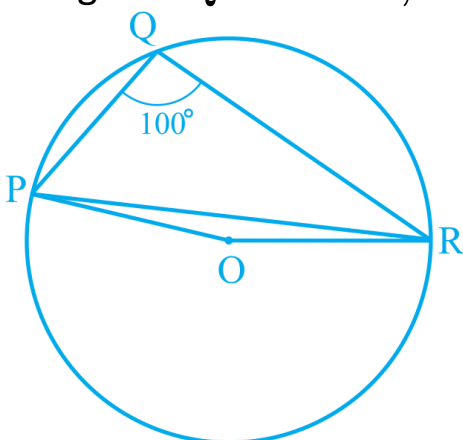


Q8. Find the area of a triangular whose sides are 91m, 98m and 105m in length. Find the height corresponding to the longest side.

5 Marks

Q9. In Fig.  $\angle PQR = 100^\circ$ , where P, Q and R are points on a circle with centre O. Find  $\angle OPR$ .

5 Marks



Q10. A cloth having an area of  $165\text{m}^2$  is shaped into the form of a conical tent of radius 5m. (Use  $\pi = \frac{22}{7}$ ).

5 Marks

- How many students can sit in the tent if a student, on an average, occupies  $\frac{5}{7}\text{m}^2$  on the ground?
- Find the volume of the cone.