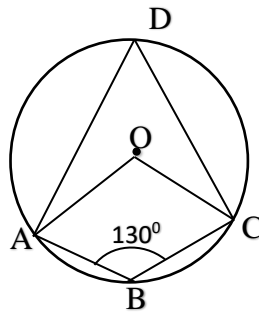


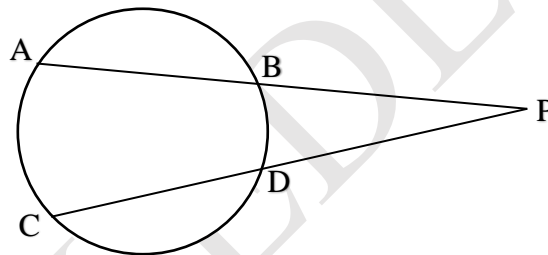


1. In the figure A, B, C, D are points on the circle with centre O. $\angle B = 130^\circ$

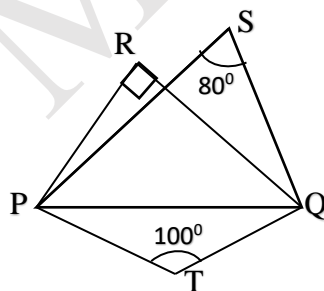


- What is the measure of $\angle D$?
- What is the central angle of arc ABC?

2. In the figure $PA = 14\text{cm}$, $AB = 6\text{cm}$, $PC = 16\text{cm}$. Find the length of PD ?



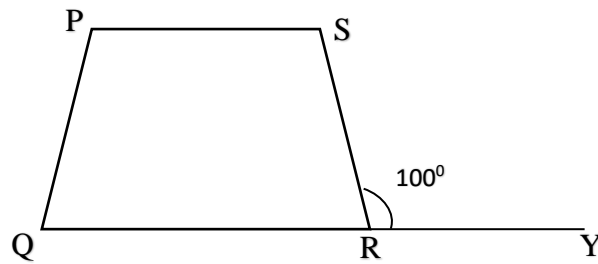
3. If we draw a circle with PQ as the diameter in the following figure,



- Whether the point R is inside, outside or on the circle?
- Where is the point S?
- Where is the point T?

4. In the cyclic quadrilateral PQRS, QR is extended to Y. If $\angle SRY = 100^\circ$,

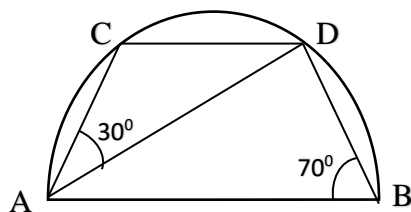
$\angle RPS = 50^\circ$.



- a) What is $\angle SRQ$?
- b) What is $\angle SPQ$?
- c) What is $\angle RPQ$?

5. Draw a rectangle of sides 5cm, 3cm and draw a square of equal area.

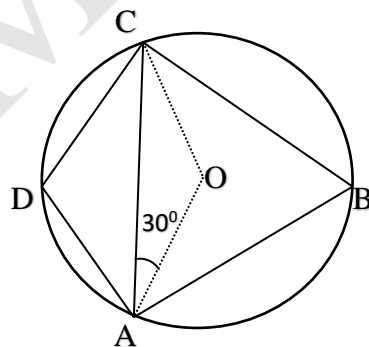
6.



C and D are two points on the semicircle with diameter AB. If $\angle ABD = 70^\circ$, $\angle DAC = 30^\circ$. Then,

- a) What is $\angle ACD$?
- b) What is $\angle CDA$?
- c) What is $\angle BDC$?
- d) What is $\angle DAB$?

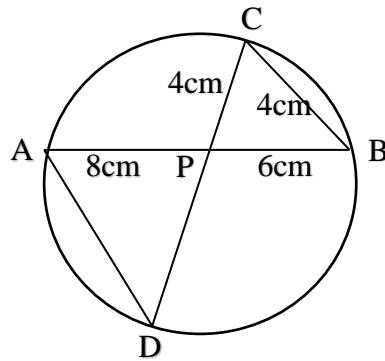
7. A, B, C and D are points on the circle with centre O. $\angle OAC = 30^\circ$,



- a) What is the measure of $\angle AOC$?
- b) What is the measure of $\angle ABC$?
- c) What is the measure of $\angle ADC$?

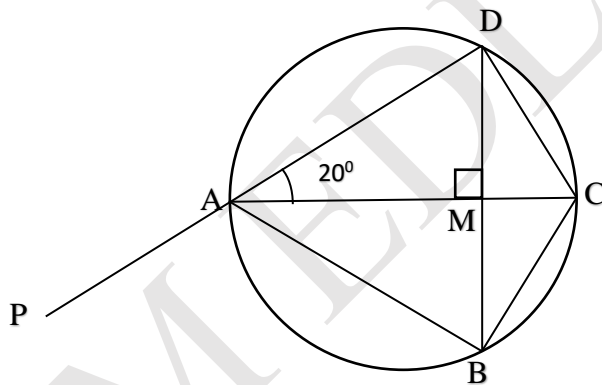
8. Draw a triangle with angles 45° , 85° and circumradius 3cm.

9. In the figure the chords AB and CD intersect at P. If PA=8cm, PB=6cm, PC=4cm, BC=4cm



- Write the angle equal to the measure of $\angle A$.
- Write one more pair of equal angles.
- Write the length of PD.
- Write the length of AD.

10. In the figure chord BD is perpendicular to the diameter AC.



Write the measures of the following angles.

- $\angle BAC$
- $\angle BCD$
- $\angle ADC$
- $\angle CDM$
- $\angle BAP$

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