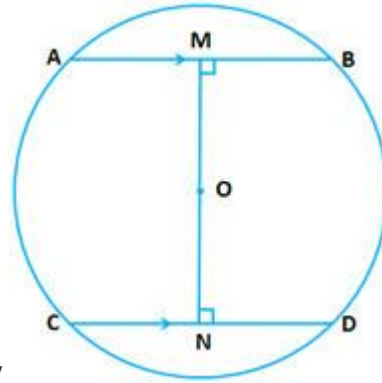


Maths Revision Test

Time : 60 mins

Max Marks : 30

Q1. In the figure, given below, AB and CD are two parallel chords and O is the center. If the radius of the circle is 15 cm , find the distance MN between the two

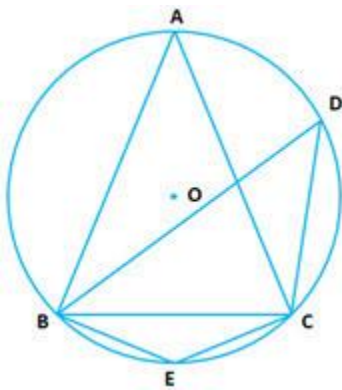


chords of lengths 24 cm and 18 cm respectively

3 marks

Q2. In the given diagram, $\angle DBC = 58^\circ$, BD is a diameter of the circle. Calculate:

(i) $\angle BDC$ (ii) $\angle BEC$ (iii) $\angle BAC$

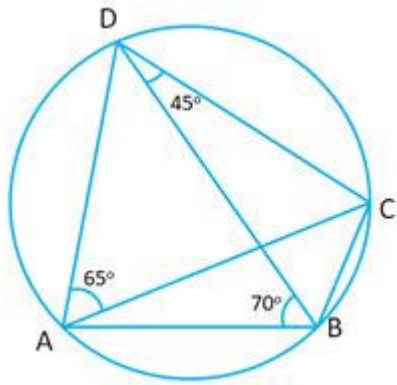


3 marks

Q3. In the given figure, $\angle BAD = 65^\circ$, $\angle ABD = 70^\circ$ and $\angle BDC = 45^\circ$.

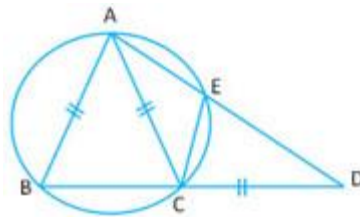
(i) Prove that AC is a diameter of the circle.

(ii) find $\angle ACB$



3 marks

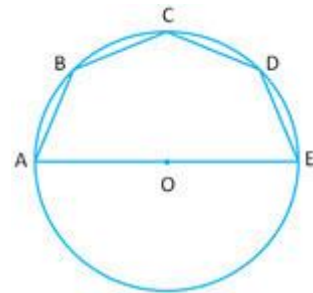
Q4 In the given figure $AB = AC = CD$ and $\angle ADC = 38^\circ$, calculate



(i) $\angle ABC$ (ii) $\angle BEC$

3 marks

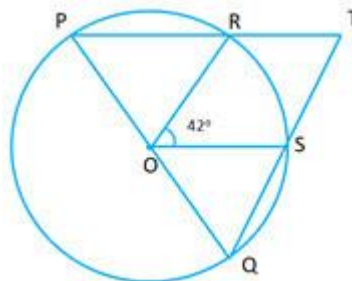
Q5 In the given figure, AE is the diameter of the circle. Write down the numerical



value of $\angle ABC + \angle CDE$. Give reasons for your answer.

3 marks

Q6. In the given figure PQ is the diameter of the circle whose center is O .



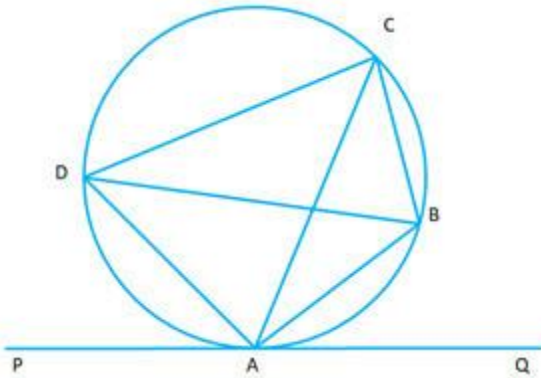
Given $\angle ROS = 42^\circ$, calculate $\angle RTS$.

3 marks

Q7. In the given figure PQ is a tangent to the circle at A , AB and AD are bisectors of $\angle CAQ$ and $\angle PAC$, if $\angle BAQ = 30^\circ$ prove that:

BD is a diameter of the circle

ABC is an isosceles triangle.



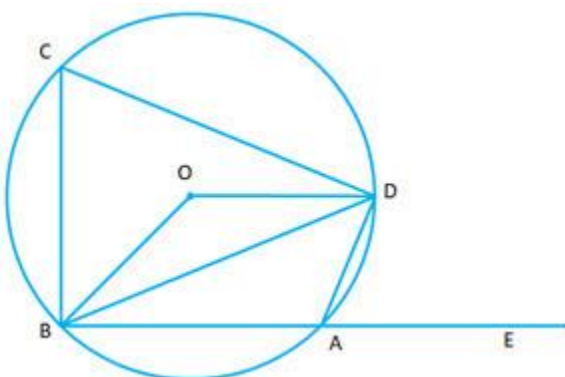
3 marks

Q8. In the figure given, O is the center of the circle. $\angle DAE = 70^\circ$. Find giving suitable reasons, the measure of: [4]

(i) $\angle BCD$

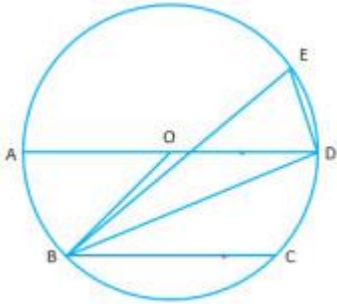
(ii) $\angle BOD$

(iii) $\angle OBD$



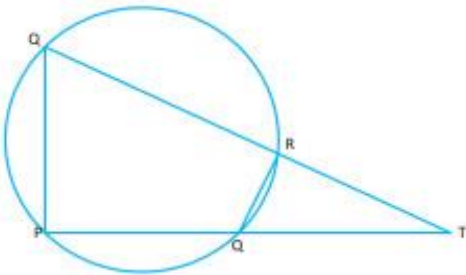
3 marks

Q9. In the given figure below, AD is the diameter. O is the center of the circle. AD is parallel to BC and $\angle CBD = 32^\circ$. Find: i) $\angle OBD$ ii) $\angle AOB$ iii) $\angle BED$



4 marks

Q 10



In the given figure $PQRS$ is a cyclic quadrilateral PQ and RS produced meet at point T .

- i) Prove $\triangle TPS \sim \triangle TRQ$
- ii) Find SP if $TP = 18 \text{ cm}$, $RQ = 4 \text{ cm}$ and, $TR = 6 \text{ cm}$
- iii) Find area, of quadrilateral $PORS$ if area of $\triangle PTS = 27 \text{ cm}^2$