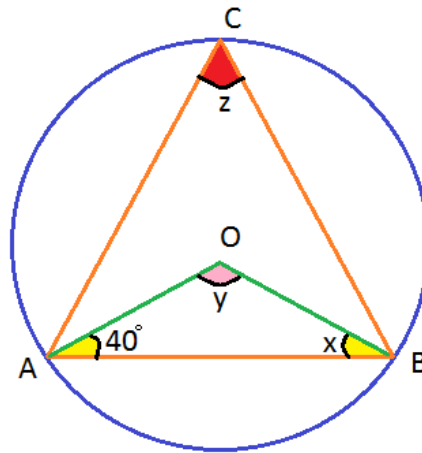
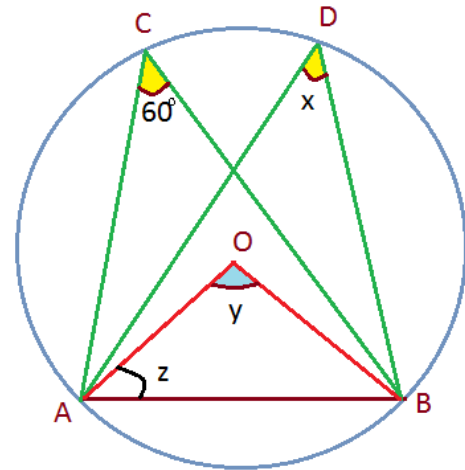
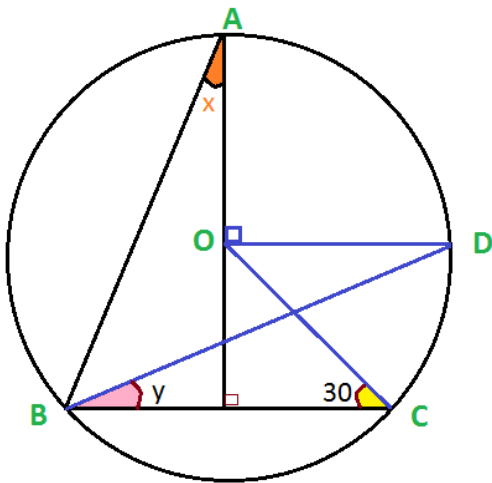




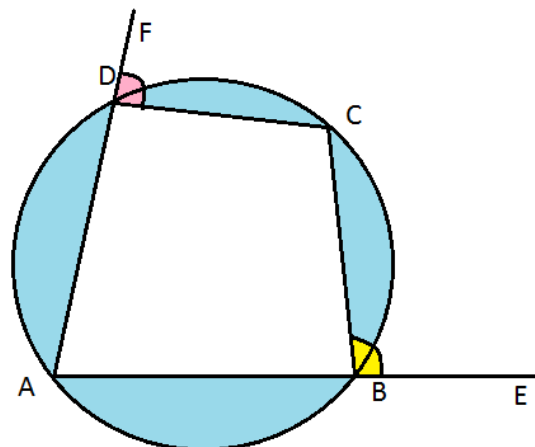
MATHEMATICS WORKSHEET

Topic: Circle Std: IX

1. O is the centre of the circle, find x , y and z .



2. Find $\angle CDF$ if $\angle CBE = 100^\circ$



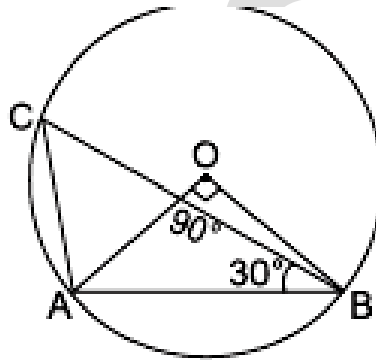


MATHEMATICS WORKSHEET

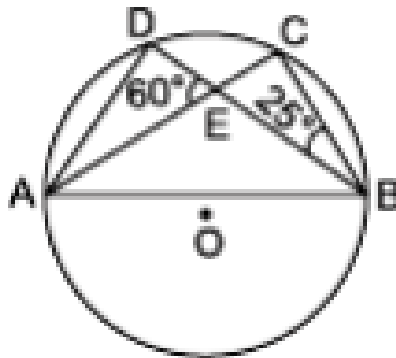
Topic: Circle Std: IX

3. ABCD is a cyclic quadrilateral. If $\angle A = (2x + 40^\circ)$ and $\angle C = (3x + 20^\circ)$. Find the value of x.

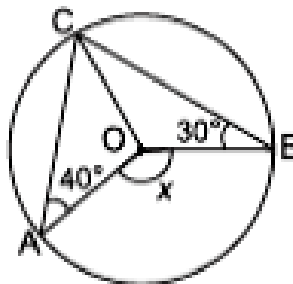
4. In figure, $\angle AOB = 90^\circ$ and $\angle ABC = 30^\circ$, then $\angle CAO$ is equal to



5. In the given figure, O is the centre of the circle, $\angle CBE = 25^\circ$ and $\angle DEA = 60^\circ$. The measure of $\angle ADB$ is



6. In the given figure, O is the centre of the circle. The value of x is

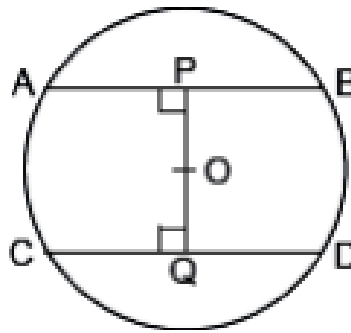




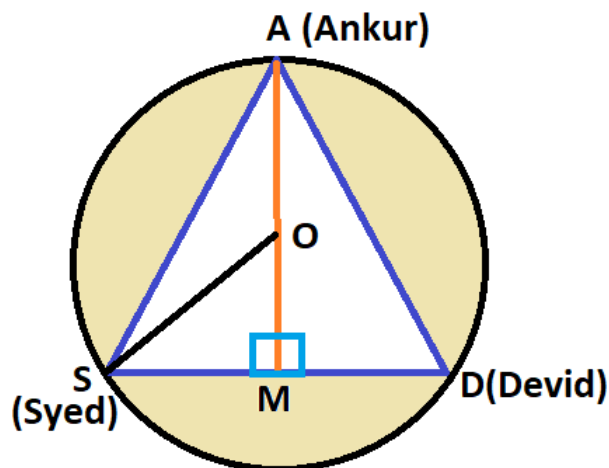
MATHEMATICS WORKSHEET

Topic: Circle Std: IX

7. In the given figure, O is the centre of the circle with radius 5 cm. $OP \perp AB$, $OQ \perp CD$, $AB \parallel CD$, $AB = 6$ cm and $CD = 8$ cm. Determine PQ



8. A circular park of radius 20m is situated in a colony. Three boys Ankur, Syed and David are sitting at equal distance on its boundary each having a toy telephone in his hands to talk each other. Find the length of string of each phone.



9. In a circle of radius 18 cm, AB and AC are two chords such that $AB = AC = 12$ cm. Find the length of chord BC .
10. Given a circle of radius 5 cm and centre O . OM is drawn perpendicular to the chord XY . If $OM = 3$ cm, then length of chord XY is ?