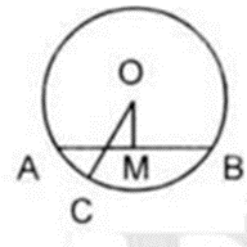
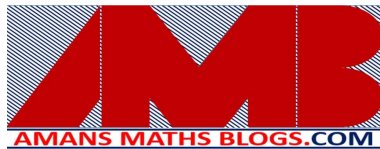


JSTSE : PREVIOUS YEARS

(Mathematics : Circle)

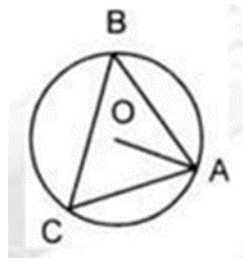
1. In figure $OM \perp AB$ and $OM = 4\text{cm}$, $OC = 5\text{cm}$ then, AB is (2011)



- (a) 10 cm
- (b) 9 cm
- (c) 8 cm
- (d) 6 cm

Ans. (d)

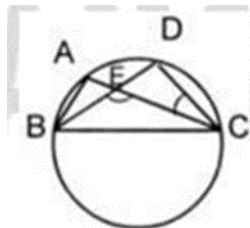
2. In figure O is centre of Circle, if $\angle ACB = 40^\circ$ the $\angle OAB$ is (2011)



- (a) 40°
- (b) 50°
- (c) 70°
- (d) 80°

Ans. (b)

3. In figure, four points A, B, C, D are on a circle AC and BD intersect at E such that $\angle BEC = 130$ and $\angle ECD = 20^\circ$ then $\angle BAC$ is (2011)



- (a) 50°
- (b) 80°
- (c) 110°
- (d) 150°

Ans. (c)

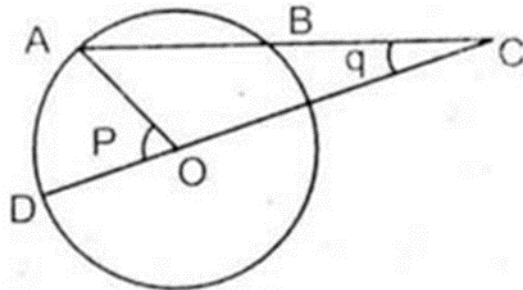
4. Difference of circumference of two circles is 132 cm. Radius of the smallest circle is 14 cm. The radius of the largest circle is: (2012)

- (a) 35 cm (b) 40 cm
(c) 46 cm (d) 54 cm

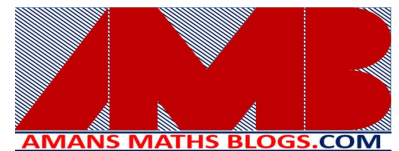
Ans. (a)

5. In the figure, O is the centre of the circle is $BC = OD$, $\angle AOD = P$ and $\angle ACO = q$

(2012)

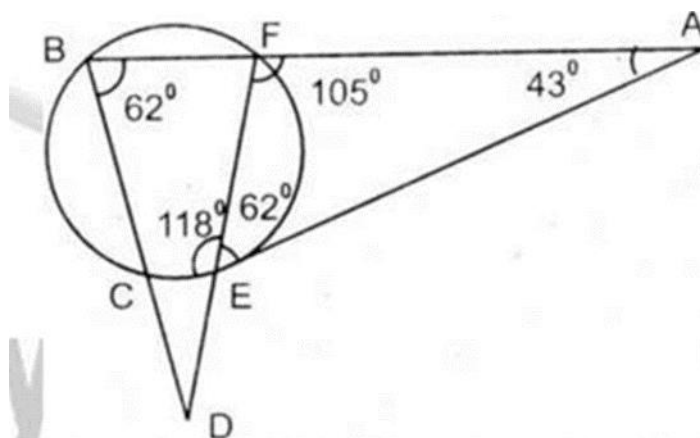


- (a) $P = \frac{3}{2}q$
(b) $P = 2q$
(c) $P = 3q$
(d) There is not special relationship between P and q



Ans. (c)

6. In the figure, if $\angle FBD = 62^\circ$, $\angle BAC = 43^\circ$, then $\angle EDC$ will be (2012)



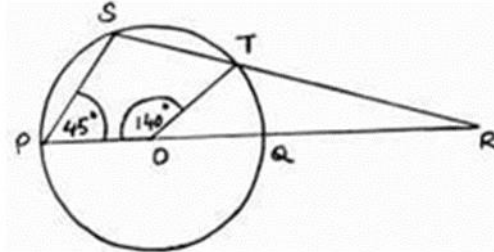
- (a) 10° (b) 43°
(c) 16° (d) 31°

Ans. (b)

7. A B C D E is a pentagon inscribed in a circle with centre O. $\angle ABC + \angle CDE$ will be
- (a) 108° (b) 180° (2013)
(c) 270° (d) 360°

Ans. (c)

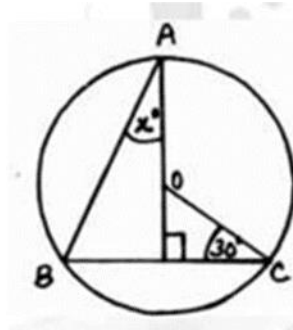
8. In the figure, if O is the centre of the circle, then $\angle TRQ$ is (2013)



- (a) 25° (b) 35°
(c) 45° (d) 70°

Ans. (a)

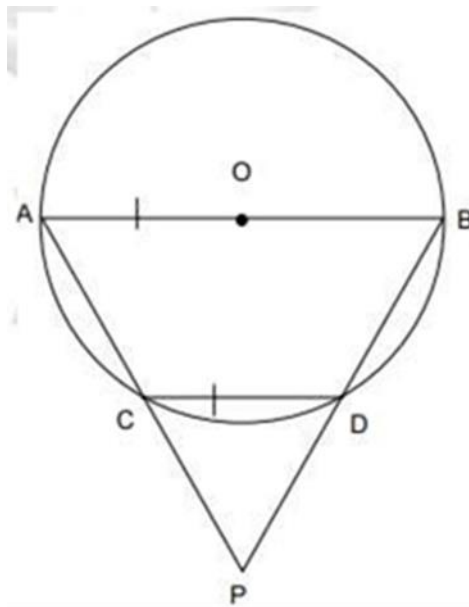
9. In the figure, if O is the centre of the circle, then value of x is (2013)



- (a) 15 (b) 30
(c) 45 (d) 60

Ans. (b)

10. In the figure, O is the centre of the circle and $OA = CD$, then $\angle CPD$ is (2014)

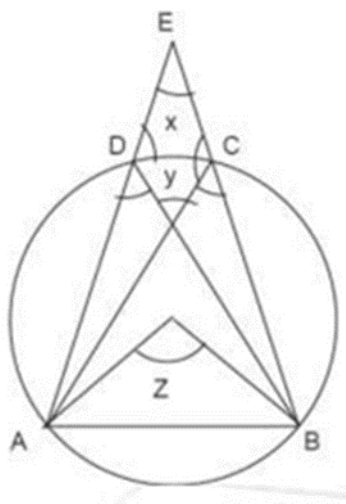


- (a) 45° (b) 30°
(c) 70° (d) 60°

Ans. (d)

11. In figure, O is the centre of the circle, then

(2015)

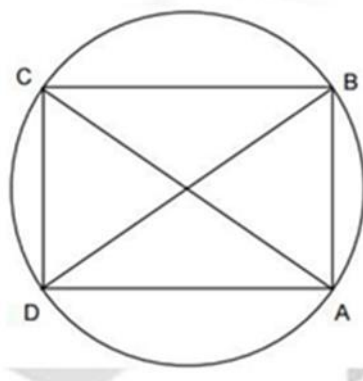


- (a) $x + y + z = 180^\circ$ (b) $z = 2x + y$
(c) $y = z + x$ (d) $z = x + y$

Ans. (c)

12. In figure, ABCD is a cyclic quadrilateral and $\angle ADC = 80^\circ$, $\angle ACD = 50^\circ$, then $\angle CBD$ is

(2015)



- (a) 60° (b) 130°
(c) 50° (d) 40°

Ans. (c)