September Sprint for CAT 2025

Class 25

Polygons and Circles

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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths

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- Recorded concept videos
- Solved questions – basic to advanced
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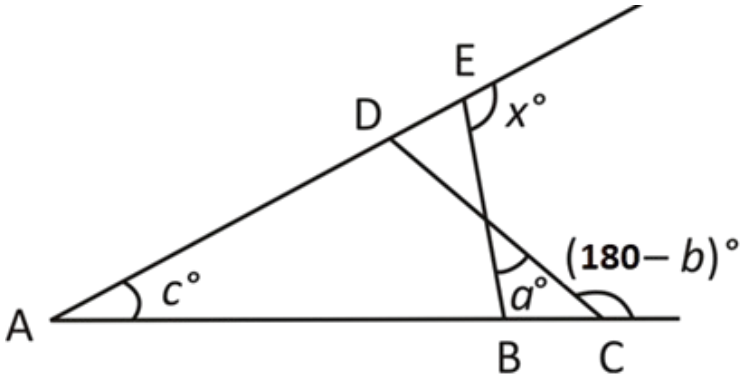
Pause the video, solve the question and then look at the solution!

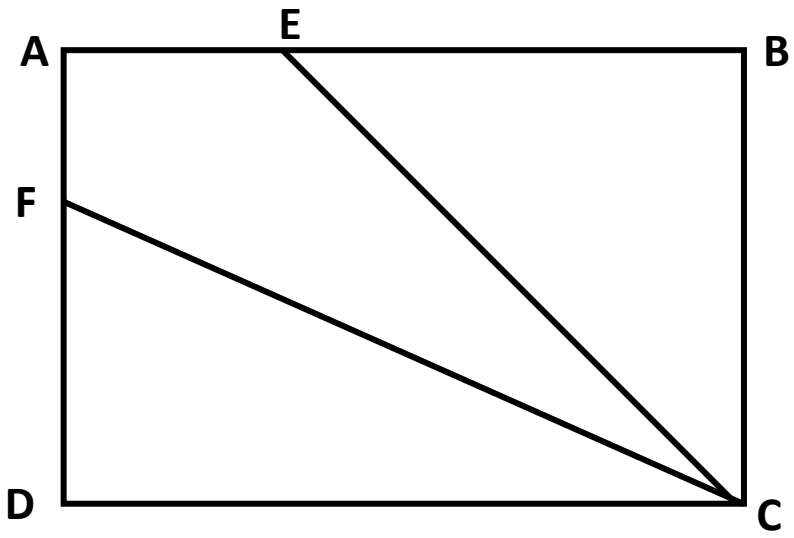
Some angles are indicated in the figure given below. Which one of the following relations is correct?

A. x = a+b+c
B. x = a+b-c
C. x = 2a+b+c
D. x = 2a+b-c



The lengths of two sides of a parallelogram are 5 cm and 11 cm. What is the sum of the squares of the diagonals of the parallelogram?

In the given figure, ABCD is a rectangle. AE:EB = 3:7 and AF:FD = 2:5. If the area of AECF is 82 units, find the area of ABCD.



In a rectangle ABCD, P is a point situated inside it. If PA = 9 cm, PC = 24 cm, and PD = 18 cm, then find PB.

A. 18 cm
B. 15 cm
C. $6\sqrt{10}$ cm
D. $3\sqrt{37}$ cm

If a rhombus has an area of 12 sq cm and a side length of 5 cm, then the length, in cm, of its longer diagonal is

A. $\frac{\sqrt{37}+\sqrt{13}}{2}$

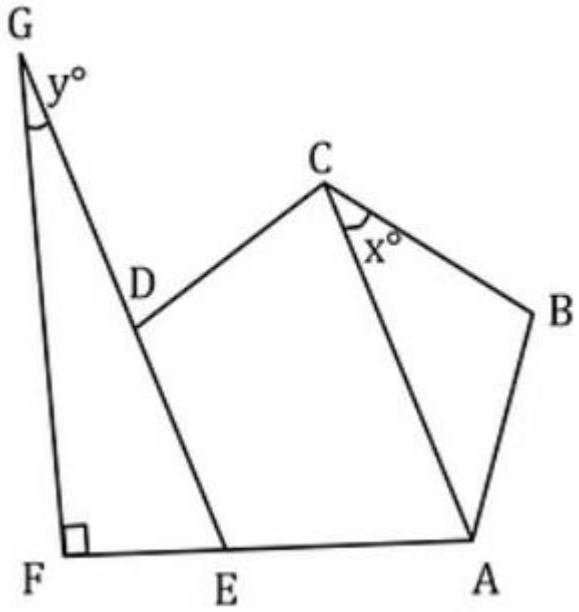
B. $\frac{\sqrt{13}+\sqrt{12}}{2}$

C. $\sqrt{(37)} + \sqrt{(13)}$

D. $\sqrt{(13)} + \sqrt{(12)}$

ABCDE is a regular pentagon. Sides AE and ED of the pentagon are extended as shown to form triangle EFG, which is right-angled at F. Vertices A and C are joined to form the triangle ABC. What is the value of (x+y)°?

A. 48°
B. 54°
C. 60°
D. 72°



The ratio of the area of a square to the area of a regular hexagon having the same perimeter is:

A. 2:3
B. √3:2
C. 1:√3
D. 4:3√3

A regular octagon is formed after cutting the corners of a square whose side is 6 cm. Find the area of the octagon.

A. $36(\sqrt{2}-1)$
B. $72(\sqrt{2}-1)$
C. $36(\sqrt{2}+1)$
D. $18(\sqrt{2}+1)$

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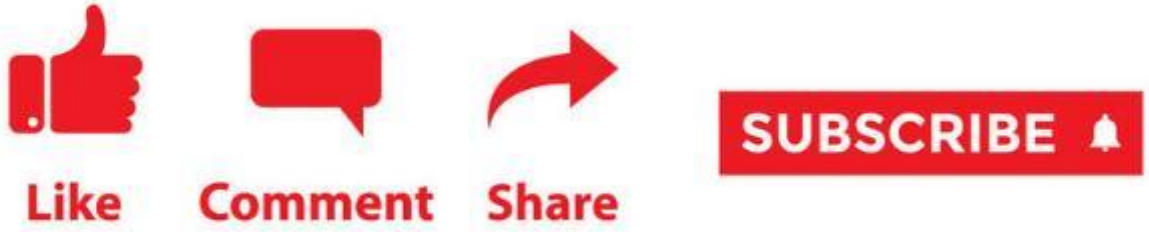
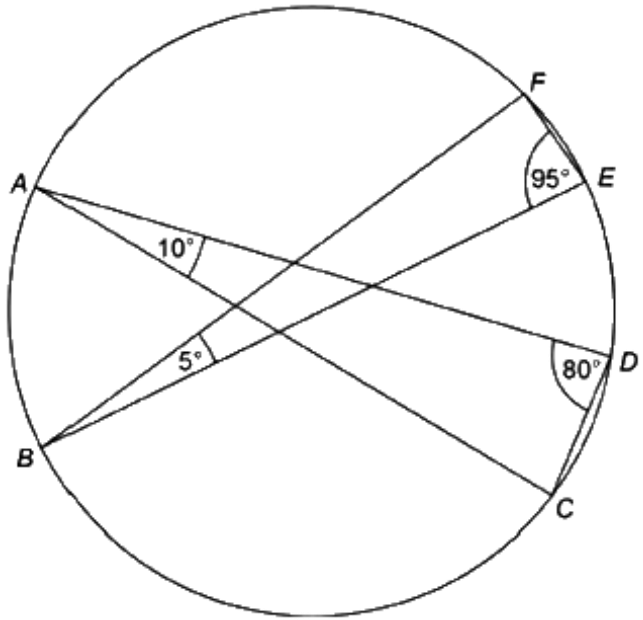


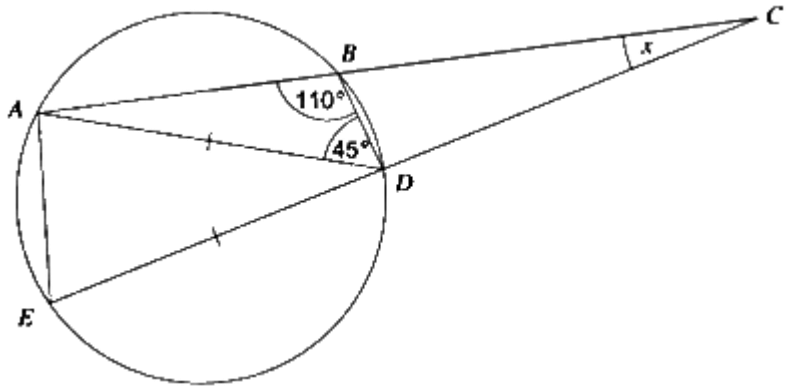
In the given figure, A, B, C, D, E, and F are points on a circle. Which of the following is the diameter of the circle?

A. AC
B. AD
C. BE
D. BF



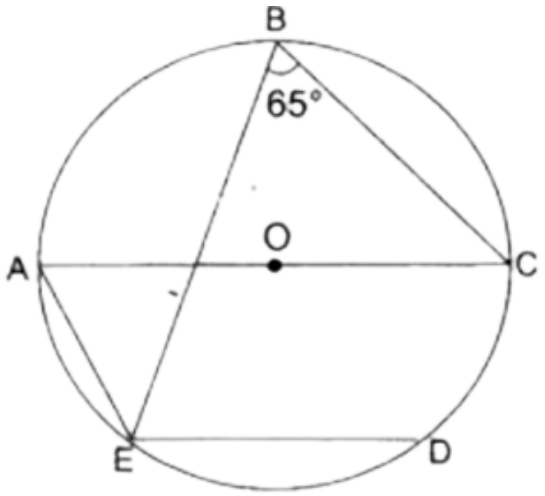
In the given figure, AD = DE. Find the value of x.

A. 10°
B. 15°
C. 20°
D. 25°



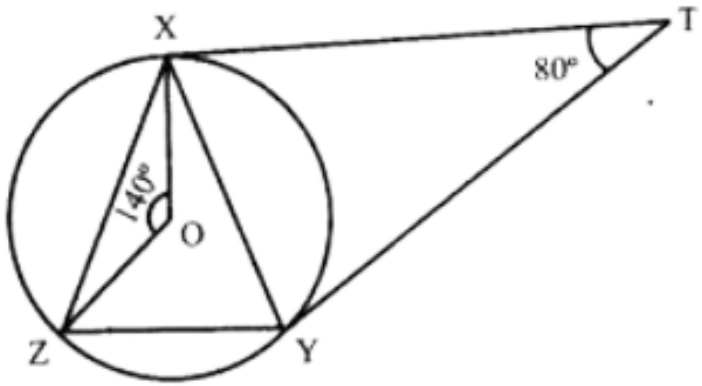
In the given figure, chord ED is parallel to the diameter AC. If ∠CBE = 65°, find ∠DEC.

A. 20°
B. 25°
C. 30°
D. 35°



In the given figure, O is the circumcentre of triangle XYZ. Tangents at X and Y intersect at T. If ∠ZOX = 140° and XTY = 80° find ∠OZY.

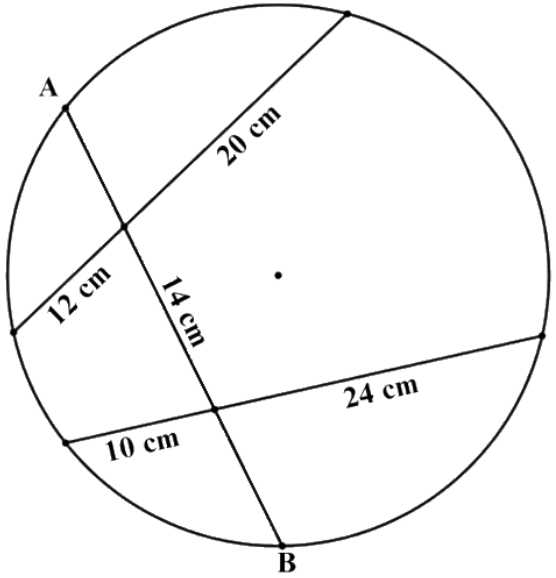
A. 20°
B. 30°
C. 40°
D. 50°



AB and CD are two chords of a circle such that AB = 6 cm, CD = 12 cm, and AB || CD. If the distance between AB and CD is 3 cm, find the radius of the circle.

A. $5\sqrt{3}$ cm
B. $3\sqrt{5}$ cm
C. $3\sqrt{3}$ cm
D. $2\sqrt{6}$ cm

In the given figure, find the length of the chord AB (in cm).



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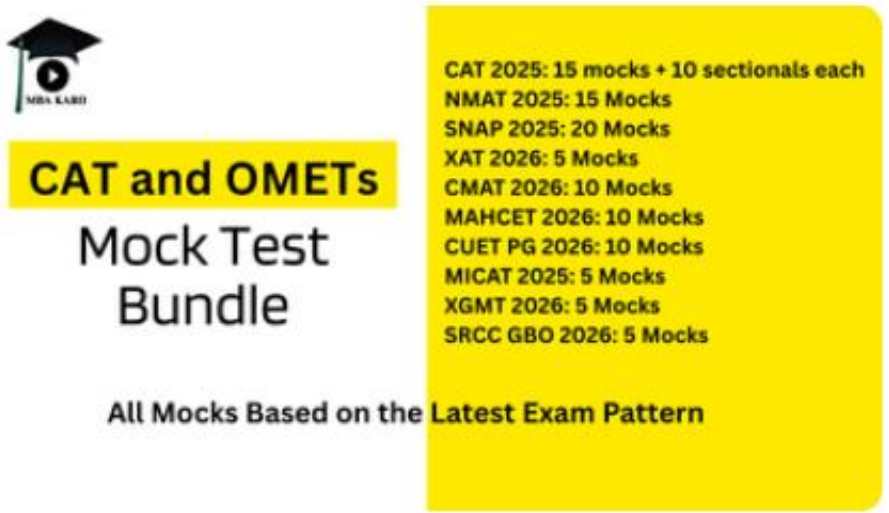
Expires On Nov 30, 2025

₹ 1,500



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SNAP – 20
XAT – 10
CMAT – 10
MAHCET – 20
CUET PG – 10
MICAT – 5
XGMT – 5
SRCC GBO - 5

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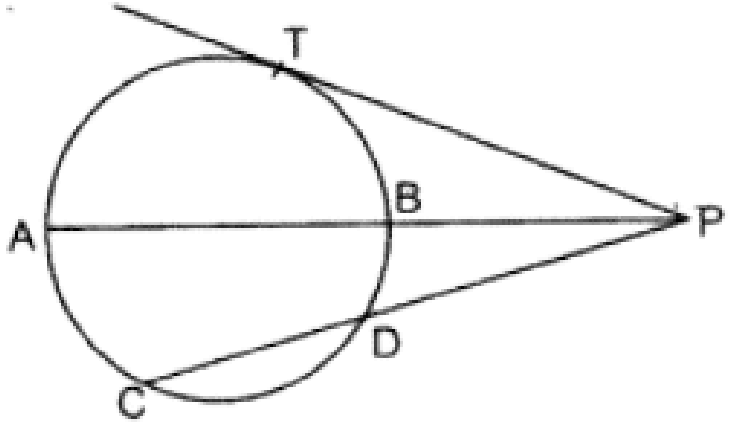
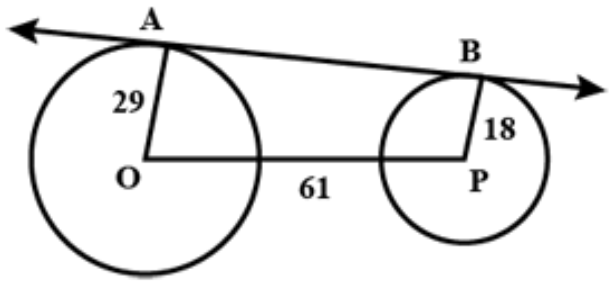
In the given figure, the diameter AB and chord CD of a circle meet at P. PT is tangent at T. CD = 7.8 cm, PD = 5 cm, and PB = 4 cm. Find the radius of the circle.

A. 4 cm
B. 5 cm
C. 6 cm
D. 8 cm



In the figure, line AB is a tangent to both the circles touching at A and B. If OA = 29, BP = 18, and OP = 61, find the length of AB.

A. 47 cm
B. 50 cm
C. 54 cm
D. 60 cm



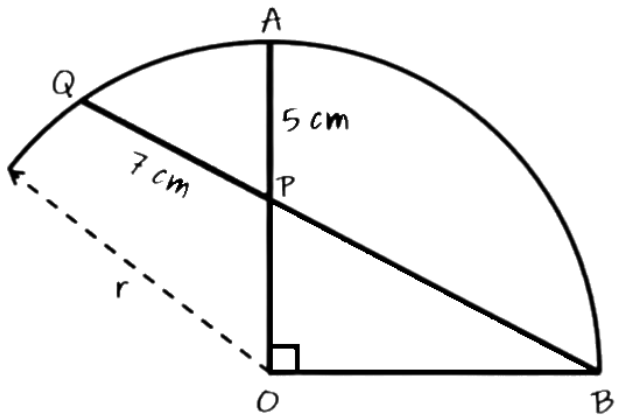
P, Q, R, and S are points on the arc of a circle such that PR is the diameter of the circle. If PQ = 7 cm, QR = 6 cm, and RS = 2 cm, what is the perimeter (in cm) of the cyclic quadrilateral PQRS?

Two mutually perpendicular chords AB and CD intersect at P. AP = 6 cm, PB = 20 cm, and CP = 10 cm. Find the area of the circle.

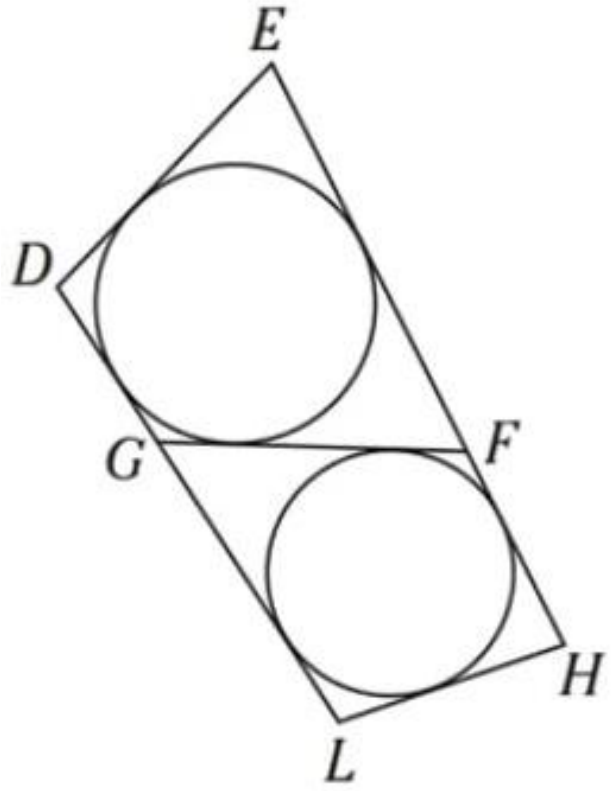
A. 170 π cm^2
B. 160 π cm^2
C. 150 π cm^2
D. 180 π cm^2

In the given figure, BAQ is an arc of a circle. PQ = 7 cm and PA = 5 cm. Find the area of triangle POB.

A. 120 sq cm
B. 130 sq cm
C. 140 sq cm
D. 150 sq cm



In the given figure, DE + LH = 24 and EH + DL = 40. Find the length of GF.



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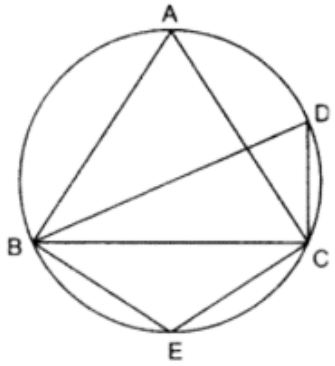
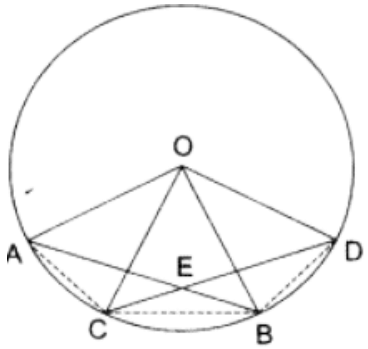
In the given figure, BD is the diameter of the circle, and ∠DBC = 32°. Find ∠BEC.



A. 122°
B. 128°
C. 144°
D. 148°

The given figure shows a circle with center O. Chords AB and CD intersect inside the circumference at E. Then, ∠AOC + ∠BOD =



A. ∠AEC
B. 2∠AEC
C. 3∠AEC
D. 4∠AEC

An equilateral triangle of side 6 cm has its corners cut off to form a regular hexagon. What is the area of this regular hexagon?

A. $3\sqrt{6}$
B. $6\sqrt{3}$
C. $3\sqrt{3}$
D. $9\sqrt{3}$

Answer in Comments

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