



Sahi Prep Hai Toh Life Set Hai

DOUBT SESSION





INSTRUCTIONS FOR ATTACHING DOUBTS FOR FURTHER DOUBT SESSION

- If a doubt is not attached properly, it will not taken in the class.
- None of the question which is discussed in class will be taken in doubt session, if you haven't revised the class.
- Without options and without mentioning which option is correct, no doubts will be entertained.
- Maximum numbers of doubts, a student can ask in doubt session is 5.
- Please send all your doubts atleast 24 hours before Doubt Class.

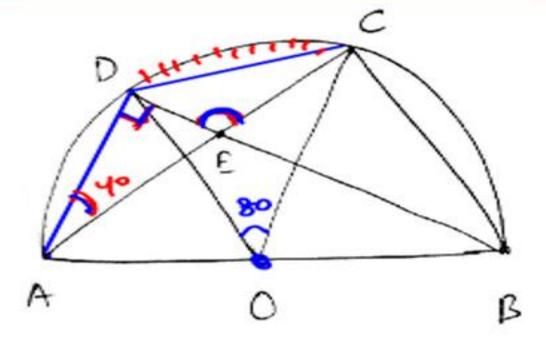
gradeup

Q23. AB is diameter

and

∠DOC = 80° (O is centre of circle) Find ∠DEC.

LDAC = 40°

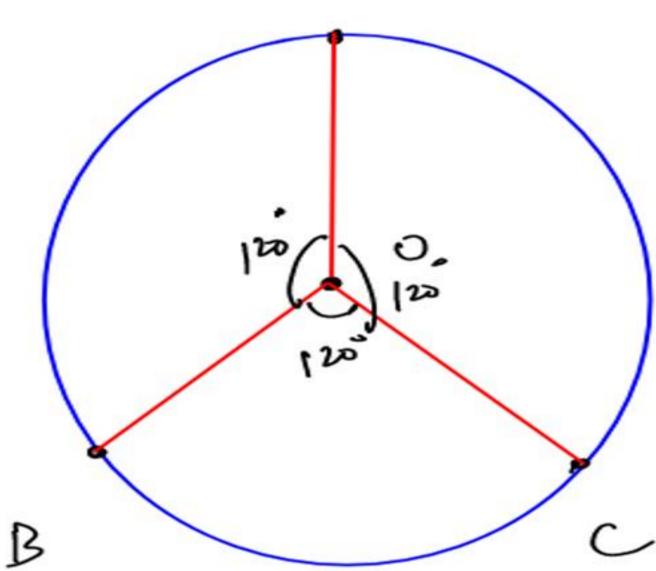


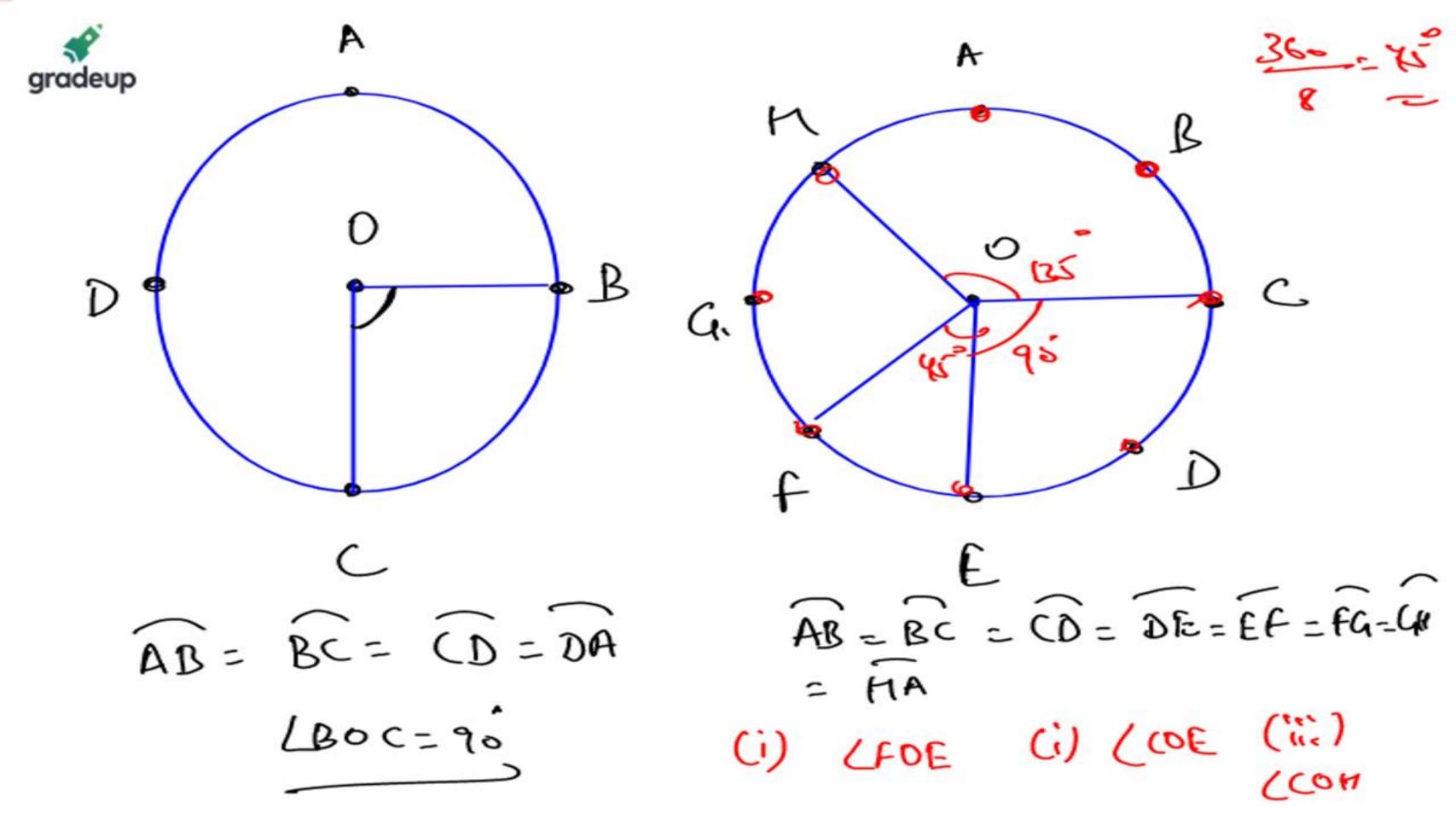


Ans. 130°









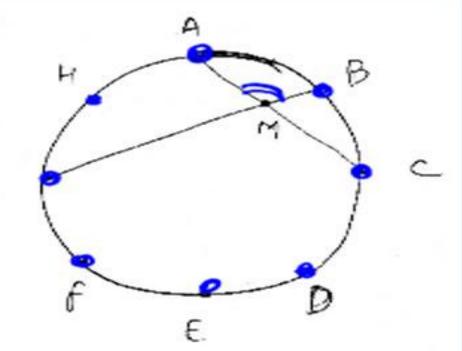
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Q24. If $\widehat{AB} = \widehat{BC} = \widehat{CD} = \widehat{DE} = \widehat{EF} = \widehat{FG} = \widehat{GH} = \widehat{HA}$

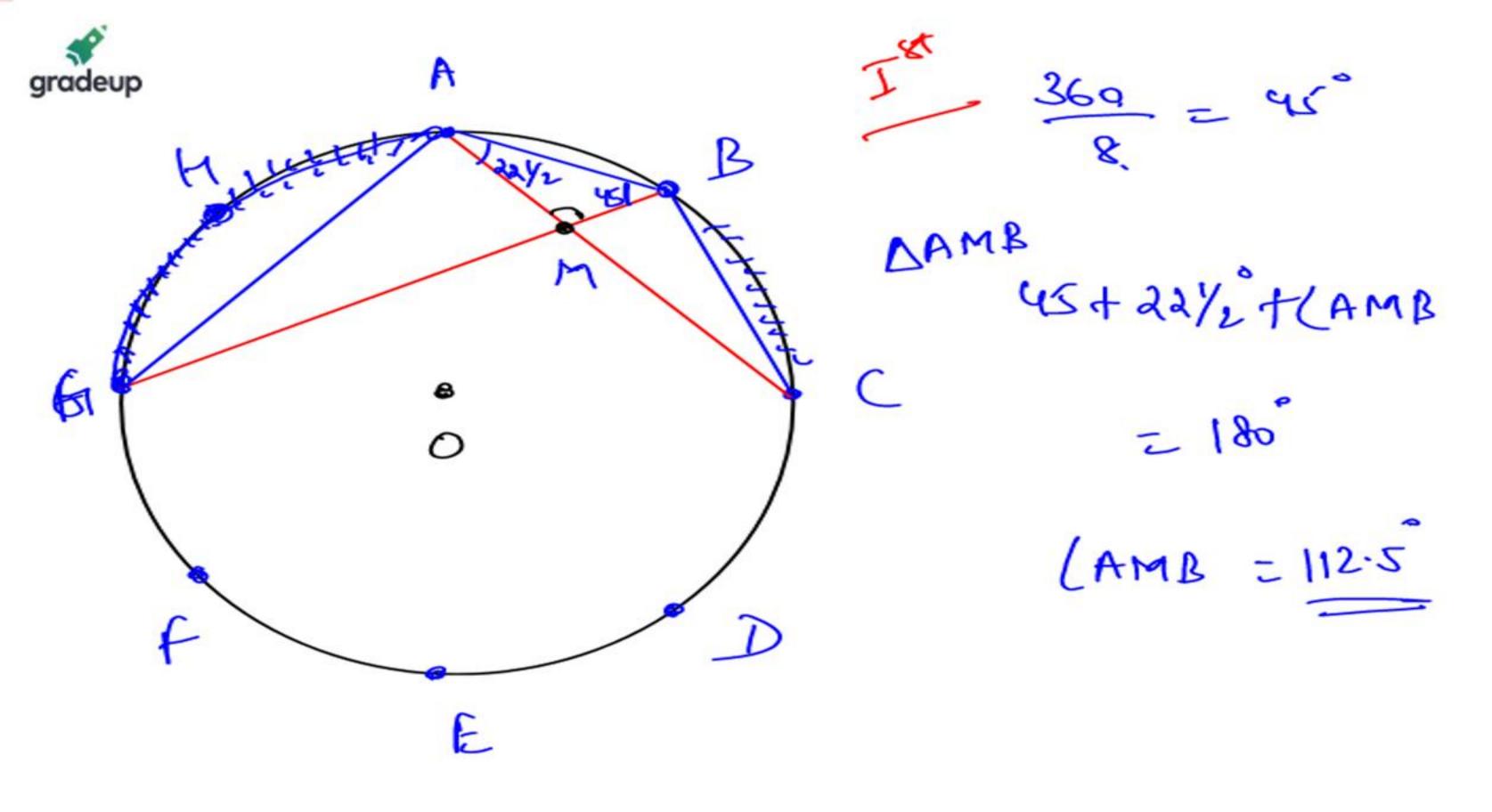
V. only

Find $\angle AMB$.

M- not the centre



G





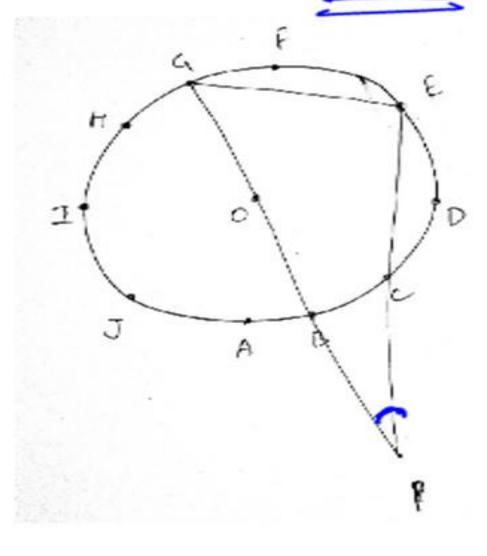
Ans. 112.5°

gradeup

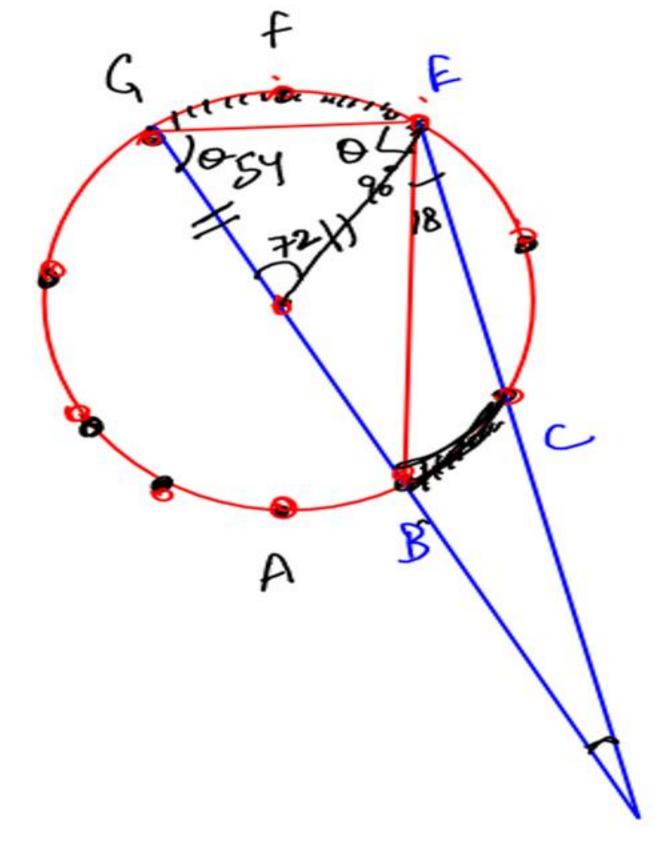
Q25. If $\widehat{AB} = \widehat{BC} = \widehat{CD} = \widehat{DE} = \widehat{EF} = \widehat{FG} = \widehat{GH} = \widehat{HI} = \widehat{IJ} = \widehat{JA}$

2min

Find \angle EPG.







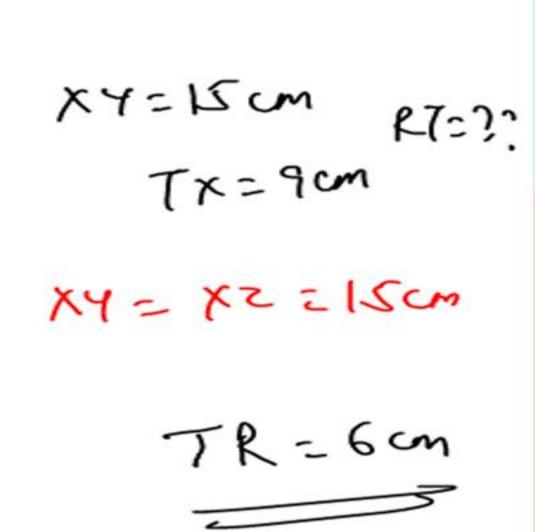


Ans. 18°



- Q2. XY and XZ are tangent to a circle, ST is another tangent to the circle at the point R on the circle, which intersects XY and XZ at S and T respectively. If XY = 15 cm and TX = 9 cm, then RT is
 - (a) 4.5 cm

- (b) 7.5 cm
- (c) 6 cm (d) 3 cm





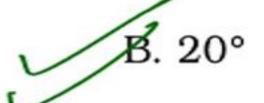
Ans. (c)



Q3. Diameter AOB of a circle is extended such that it intersect extended chord CD at E outside the circle. If ∠AOC = 50°, ∠AEC = 15°. Find ∠BOD. (O is the centre of the circle)

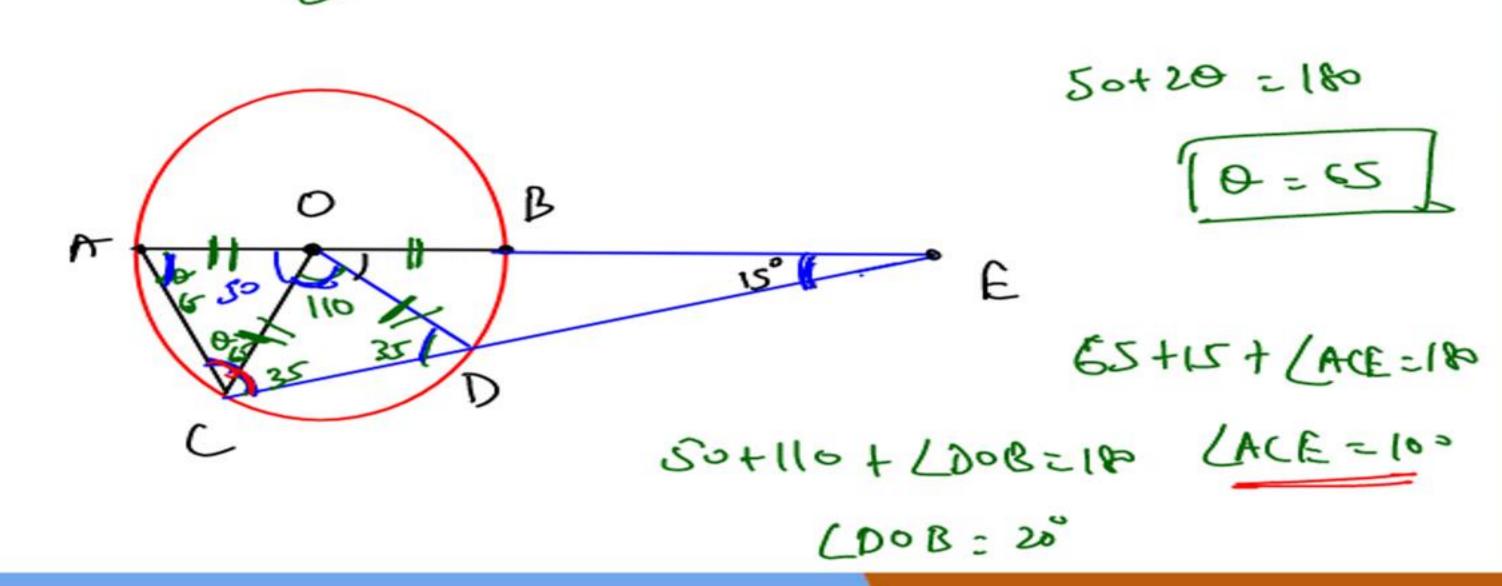
75sec

A. 10°



C. 40°

D. 5°



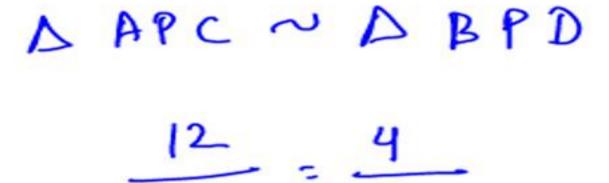


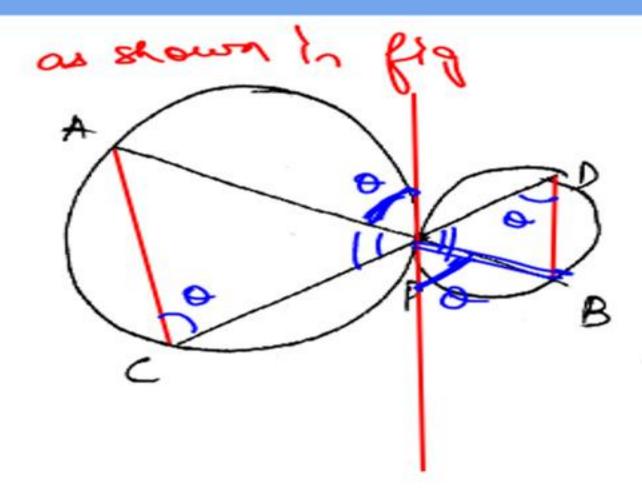
Ans. (B)

gradeup

Q20. Both circles are touching each other there are two chords AB and CD which pass through point of contact P.

If AP = 12 cm, PC = 4 cm, PD = 6 cm Find PB = ??







Ans. PB = 18 cm



Q21. Both circles are touching internally.

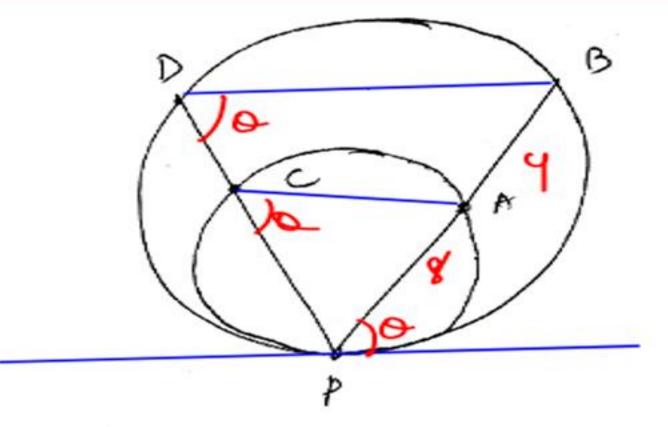
If PA = 8 cm, AB = 4 cm, PC = 12 cm

Find
$$CD = ??$$



DPCA ~ DPDB

$$\frac{12}{PD} = \frac{8}{12}$$



$$CD = PD - PC$$

$$= 18 - 12$$

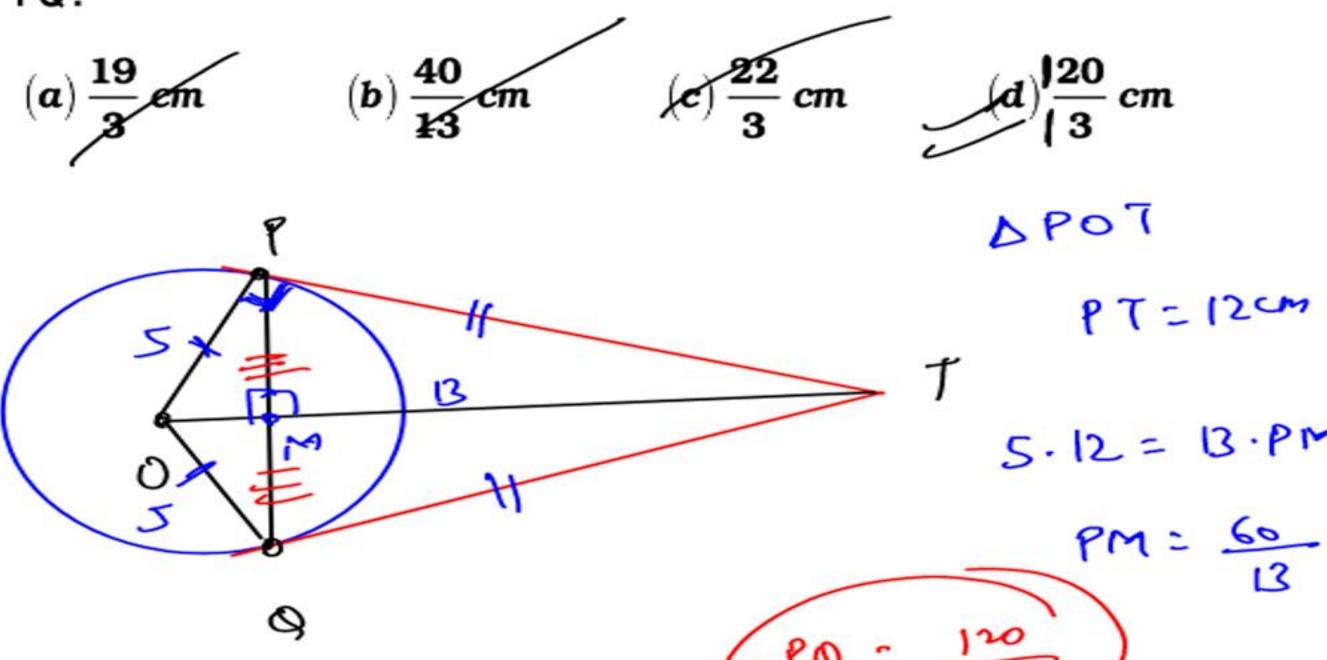
$$= 6 cm$$



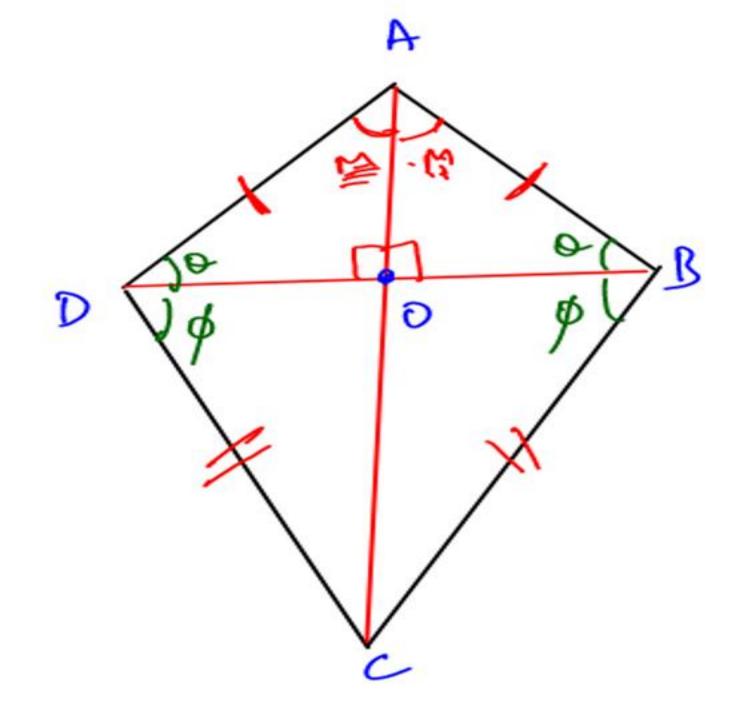
Ans. CD = 6 cm



Q22. From an external point T, 13 cm away from the centre O of the circle of radius 5 cm, the two tangents PT and QT are drawn. What is the length of PQ?









DADC D DABC

AD = AB

DC = BC

AC = AC

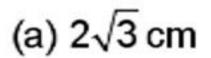


Ans. (d)

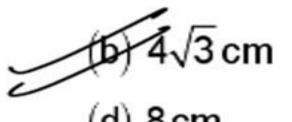




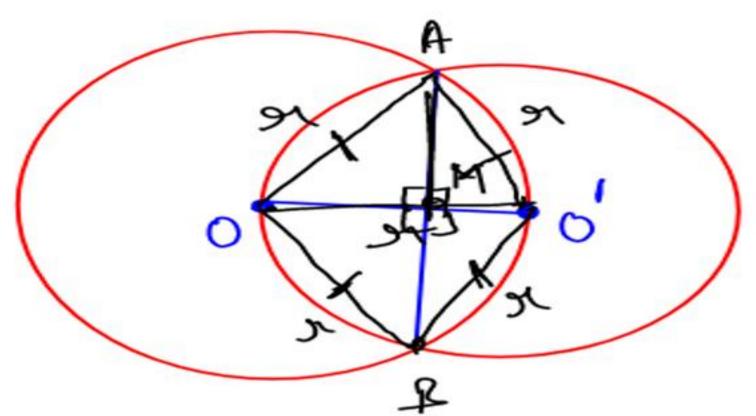
Q23. Two equal circles of radius 4 cm intersect each other such that each passes through the centre of the other. The length of the common chord is:



(c) $2\sqrt{2}$ cm



525 B DLA

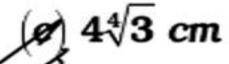




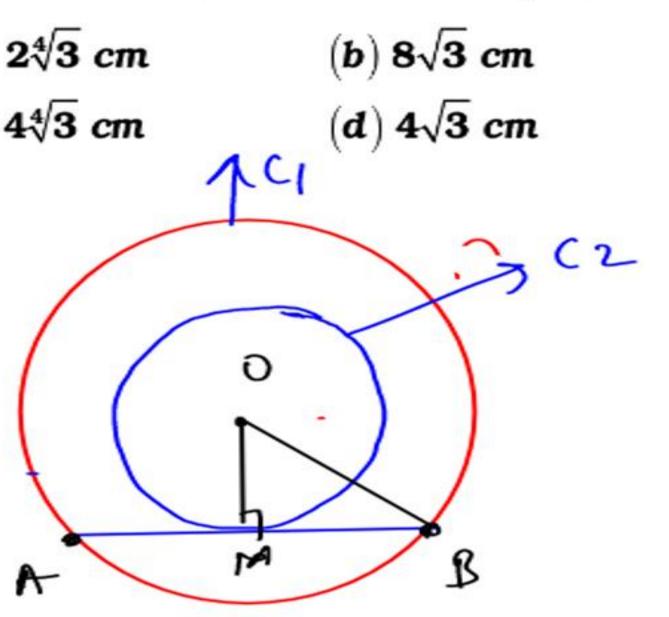
Ans. (b)



Q31. A chord AB of a circle C_1 of a radius ($\sqrt{3} + 1$) cm touches a circle C_2 which is concentric to C_1 . If the radius of C_2 is $(\sqrt{3} - 1)$ cm, the length of AB is:



(d)
$$4\sqrt{3}$$
 cm





Ans. (c)



Q32. Chords AB and CD of a circle intersect at E and are perpendicular to each other. Segments AE, EB and ED are of lengths 2 cm 6 cm and 3 cm respectively. Then the length of the diameter of the circle (in cm) is



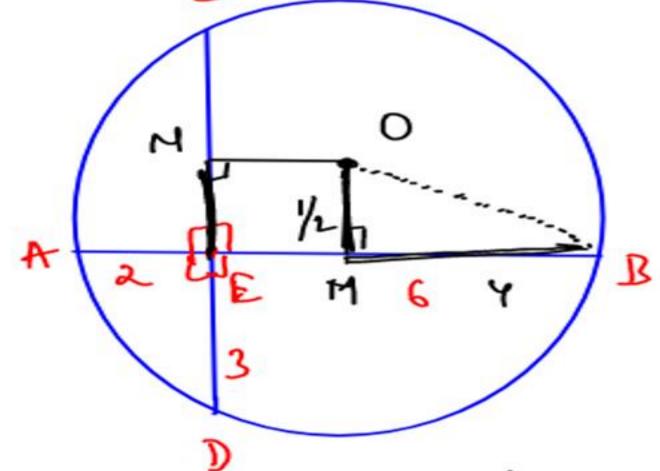
 $(b) \sqrt{62}$

90sec 8/52c

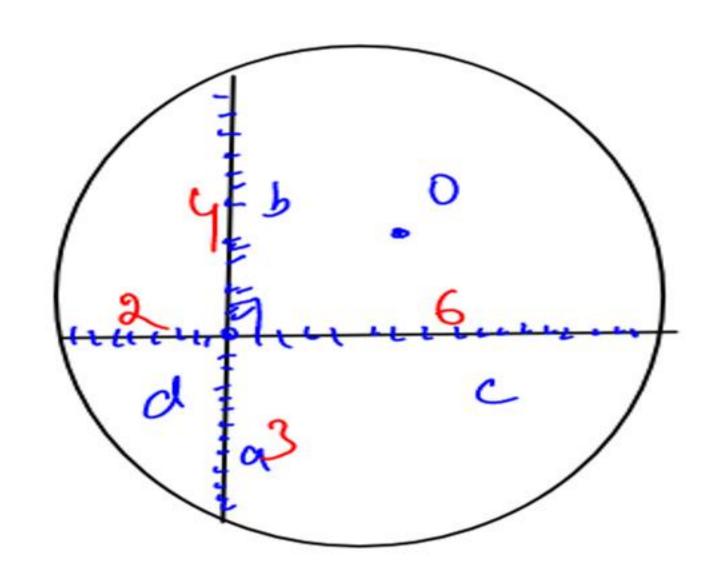
(d)
$$\frac{65}{2}$$

(i)

AEXBE = CEXDE







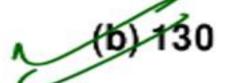
In Previous

 $\sqrt{2^{2}+6^{2}+3^{2}+4^{2}}$



Q33. Two circles with centre P and Q intersect at B and C, A, D are points on the circle such that A, C, D are collinear. If \angle APB = 130°, and \angle BQD = x°, then the value of x is

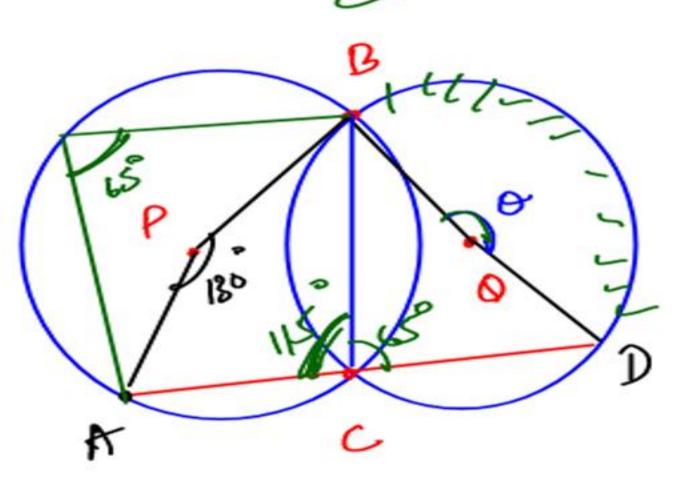
(a) 65

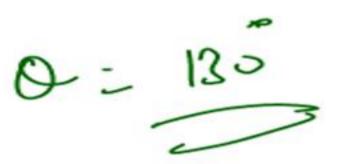


(c) 195

(d) 135









Ans. (b)



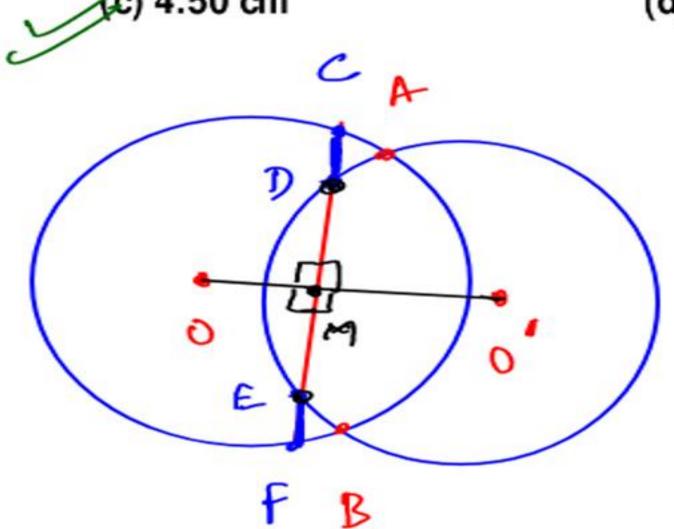
Q34. Two circles intersect each other at the points A and B. A straight line parallel to AB intersects the circles at C, D, E and F. If CD = 4.5 cm, then the measure of EF is:



(b) 2.25 cm



(d) 9.00 cm



$$MF = MC - (2)$$

$$ME = MD - (2)$$

$$(D - (2)$$

$$EF = CD$$



Ans. (c)

gradeup Q35. Two circles having radii units intersect each other in such a way that each of them passes through the centre of the other. Then the length of their common chord is:

(a)
$$\sqrt{2}$$
 r units (c) $\sqrt{5}$ r units

$$(b)\sqrt{3}$$
 r units $(d)4$ units



Ans. (b)

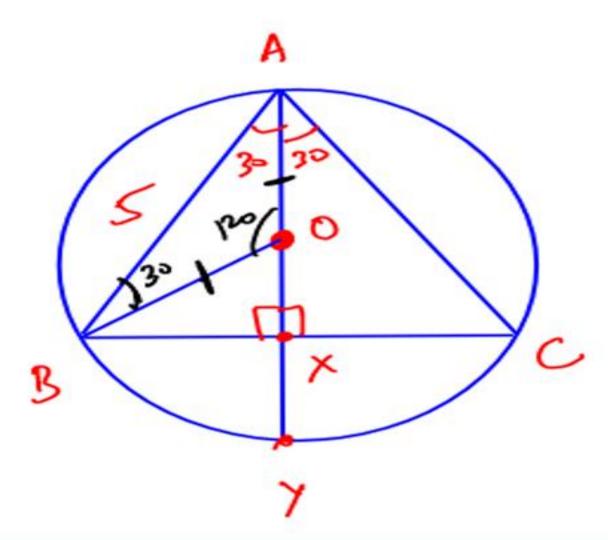


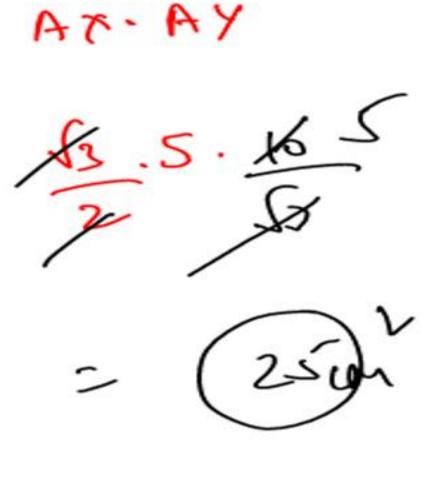
Q38. ABC is an equilateral triangle inscribed in a circle with AB = 5 cm. Let the bisector of the angle A meet BC in X and the circle in Y. What is the value of

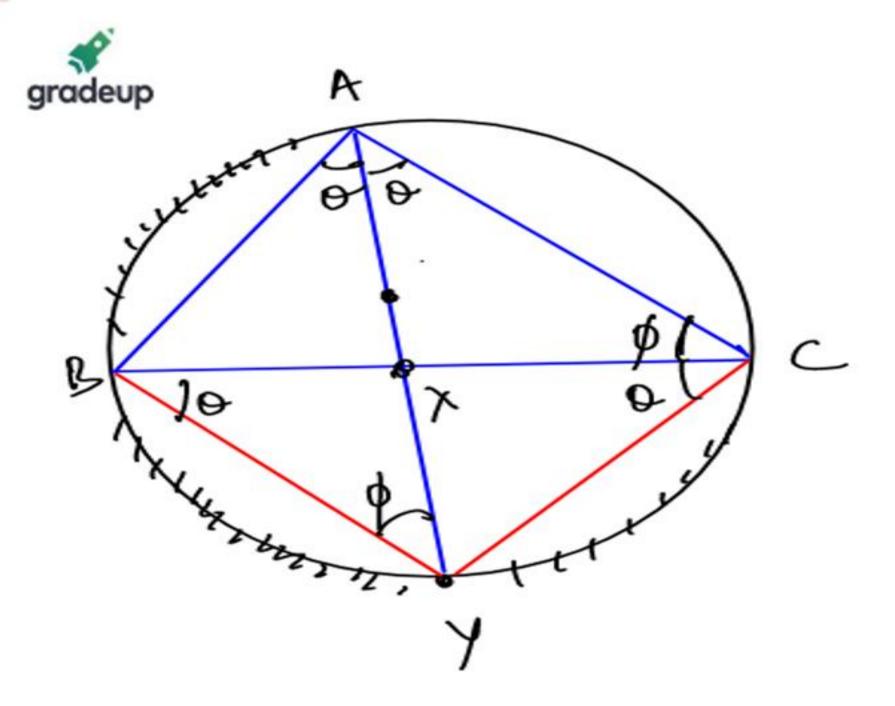
- $AX \times AY$?
- (a) 16 cm²
- (c) 25 cm²

- (b) 20 cm²
- (d) 30 cm²









AB. AC= AX-AY





Q39. In a \triangle ABC, AB = AC. A circle through B touches AC at D and intersects AB at P. If D is the mid point of AC, then which one of the following is correct?

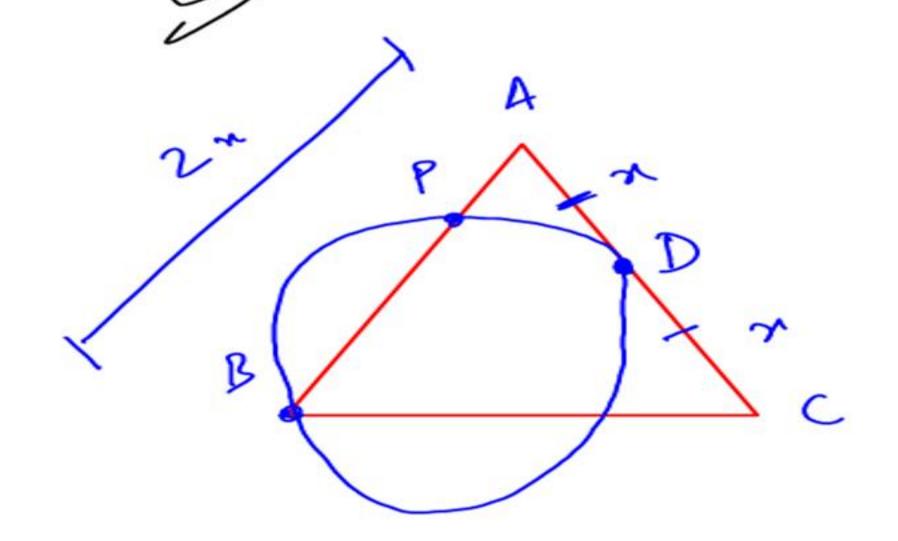


(a)
$$AB = 2AP$$

(b)
$$AB = 3AP$$

Pyo & ssc

(d)
$$2AB = 5AP$$



$$(AD)^{2} = (AP)(AB)$$

$$AP = AP \cdot 2M$$

$$AP = 2M$$

$$AP = 2M$$

$$AP = 4M$$

$$AP = 4M$$

$$AP = 4M$$





Q40. N is the foot of the perpendicular from a point P of a circle with radius 7 cm, on a diameter AB of the circle. If the length of the chord PB is 12 cm, the distance of the point N from the point B is:

$$(a)$$
 $6\frac{5}{7}$ cm

(a)
$$6\frac{5}{7}$$
 cm (b) $12\frac{2}{7}$ cm (c) $3\frac{5}{7}$ cm (d) $10\frac{2}{7}$ cm

$$(c)$$
 $3\frac{5}{7}$ cm

$$d)$$
 10 $\frac{2}{7}$ cm



Ans. (d)



Q41. I and O are respectively the in-centre and circumcentre of a triangle ABC.

The line Al produced intersects the circumcircle of \triangle ABC at the point D. If

$$\angle$$
ABC = x°, \angle BID = y° and \angle BOD = z°, then $\frac{z+x}{y}$ = ?

(a) 3 (b) 1 (c) 2 (d) 4





Q42. Two chords AB and CD of circle whose centre is 0, meet at the point P and \angle AOC = 50°, \angle BOD = 40°. Then the value of \angle BPD is:

 $(a) 60^{\circ}$

(b) 40°

 $(c) 45^{\circ}$

 $(d) 75^{\circ}$





Q45. In the given figure, a circle is inscribed in a quadrilateral ABCD. Given that,

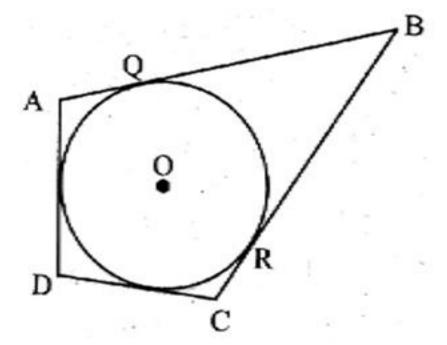
BC = 38 cm, QB = 27 cm, DC = 25 cm and AD is perpendicular to DC. What is
the radius of the circle?

(a) 11 cm

(b) 14 cm

(c) 15 cm

(d) 16 cm





Ans. (b)





Sahi Prep Hai Toh Life Set Hai

Practise topic-wise quizzes

Keep attending live classes



