

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS**Chapter 12. AREAS RELATED TO CIRCLES** [Download Doubtnut Today](#)

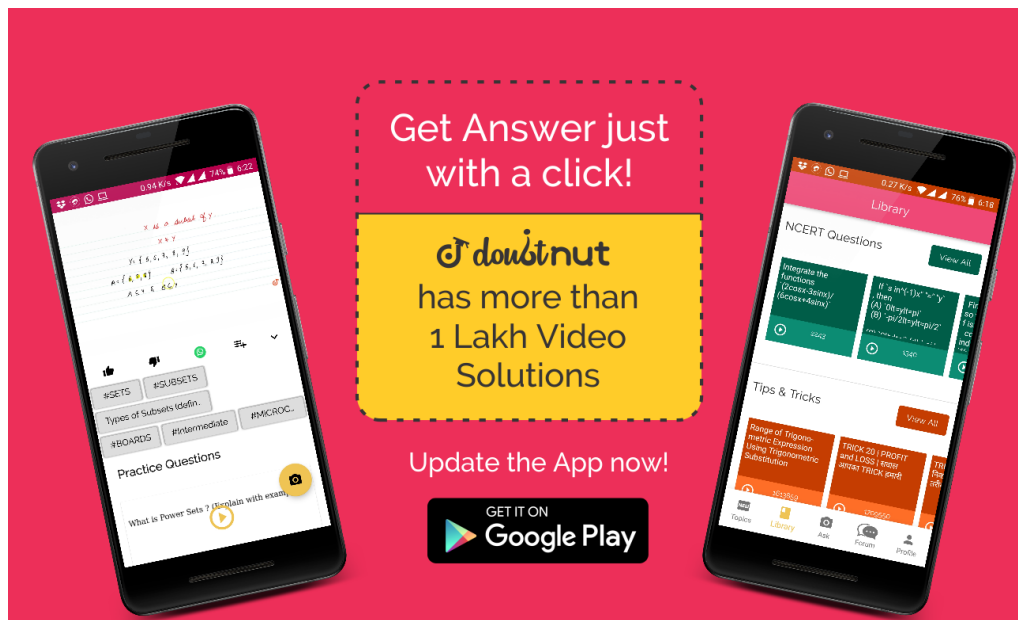
Ques No.	Question
1 - 205480	<p>CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES</p> <p>In Fig. 12.33, ABC is a quadrant of a circle of radius 14 cm and a semicircle is drawn with BC as diameter. Find the area of the shaded region.</p> <p>Click to watch Free Video Solution of this question on Doubtnut</p>
2 - 205545	<p>CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES</p> <p>If the diameter of a semicircular protractor is 14 cm, then find its perimeter.</p> <p>Click to watch Free Video Solution of this question on Doubtnut</p>
3 - 205649	<p>CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES</p>

The area of an equilateral triangle is $49\sqrt{3}cm^2$.

. Taking each angular point as shown in Figure.

Find the area of the triangle not included in the circle.

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4 - 205762

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The boundary of the shaded region in the given figure consists of three semicircular areas, the smaller ones being equal. If the diameter of the

larger one is 14 cm, calculate

(i) the length of the boundary

(ii) the area of the shaded region

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5 - 205826

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The perimeter (in cm) of a square

circumscribing a circle of radius a cm,

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6 - 205873

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

Find the perimeter of the shaded region if

ABCD is a square of side 21 cm APB & CPD

are semicircles. (Use $\pi = \frac{22}{7}$)

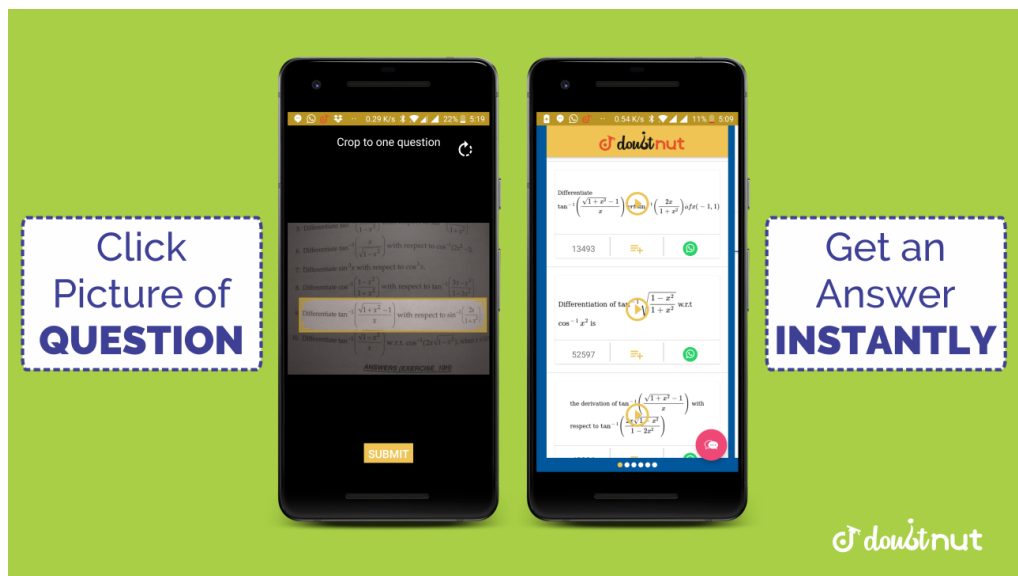
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7 - 205895

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

A chord of a circle of radius 12 cm subtends an angle of 120° at the centre. Find the area of the corresponding segment of the circle.

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Three circles each of radius 3.5 cm are drawn in such a way that each of them touches the other two. Find the area enclosed between these three circles (shaded region).

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8 - 205919

9 - 207333

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

Find the area of a quadrant of a circle whose circumference is 22 cm.

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10 - 207393

From a rectangular sheet of paper ABCD with AB=40CM and AD=28cm, a semi circular portion with BC as diameter is cut off. Find the area of the remaining paper. $\left(Use \pi = \frac{22}{7}\right)$

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11 - 207450

In Figure 6, O is the centre of the circle with AC = 24 cm, AB = 7 cm and $\angle BOD = 90^\circ$. Find the area of the shaded region. [Use $\pi = 3.14$]

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In the given figure, AB and CD are two diameters of circles (with centre O)

Perpendicular to each other and OD is the diameter of the smallest circle. If $OA = 7\text{cm}$, Find the area of the shaded region.

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In a circle of radius 21cm , an arc subtends an angle of 60° at the centre. Find (i) the length of

the arc (ii) area of the sector formed by the arc.

$$\left(Use \pi \frac{22}{7} \right)$$

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14 - 204859

. In the following figure, PQRS is square lawn with side PQ = 42 metres. Two circular flower beds are there on the sides PS and QR with centre at O, the intersections of its diagonals. Find the total area of the two flower beds (shaded parts).

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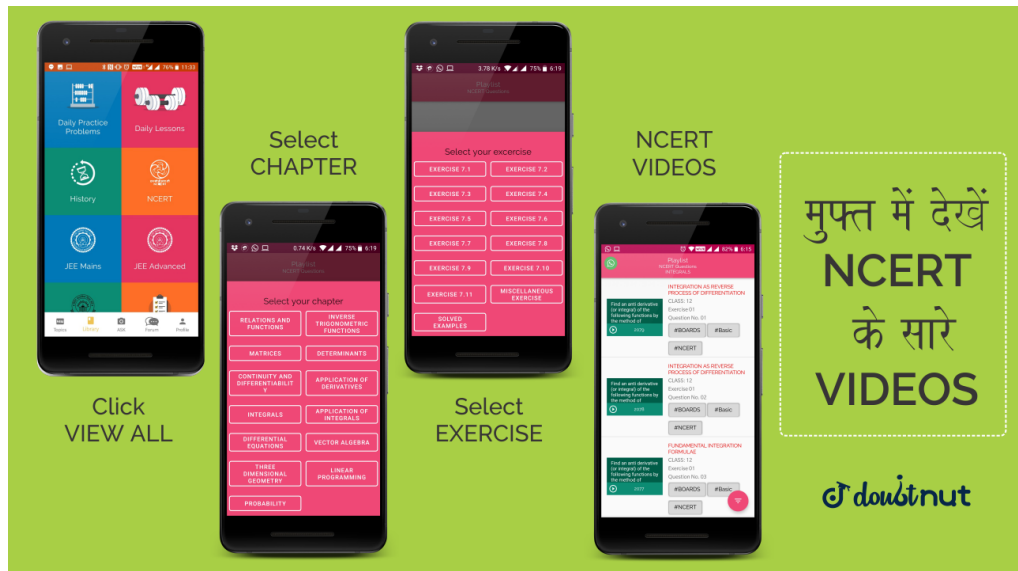
15 - 203675

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

In fig. O is the center of a circle such that diameter AB=13cm and AC= 12 cm. BC is

joined. Find the area of the shaded region.

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Find the area of the shaded region in Fig.

12.20, if radii of the two concentric circles with centre O are 7 cm and 14 cm respectively and $\angle AOC = 40^\circ$

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16 - 203683

17 - 215934

CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 12. AREAS RELATED TO CIRCLES

Three semicircles each of diameter 3 cm, a circle of diameter 4.5 cm and a semicircle of

radius 4.5 cm are drawn in the given figure.

Find the area of the shaded region.

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In the given figure, is shown a sector OAP of a circle with centre O, containing $\angle \theta$. AB is perpendicular to the radius OA and meets OP produced at B. Prove that the perimeter of shaded region is

$$r \left[\tan \theta + \sec \theta + \pi \frac{\theta}{180} - 1 \right]$$

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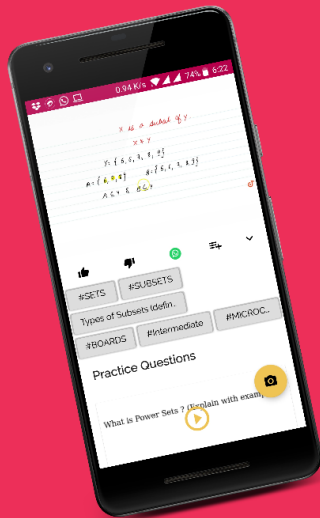
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