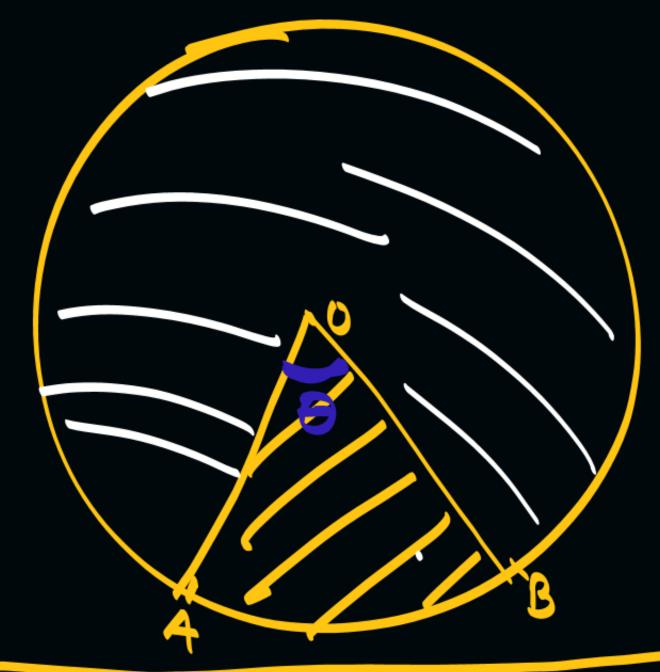
Area of Sector:



Area of Minor Sector = \$60 TT2

Area of Major sector = $\pir^2 - \frac{2}{360}\pi^2$

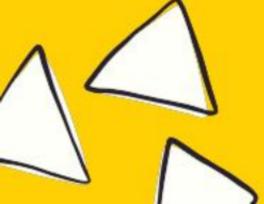


[Aim: 100/100 in Maths]

31317 CLASS 10

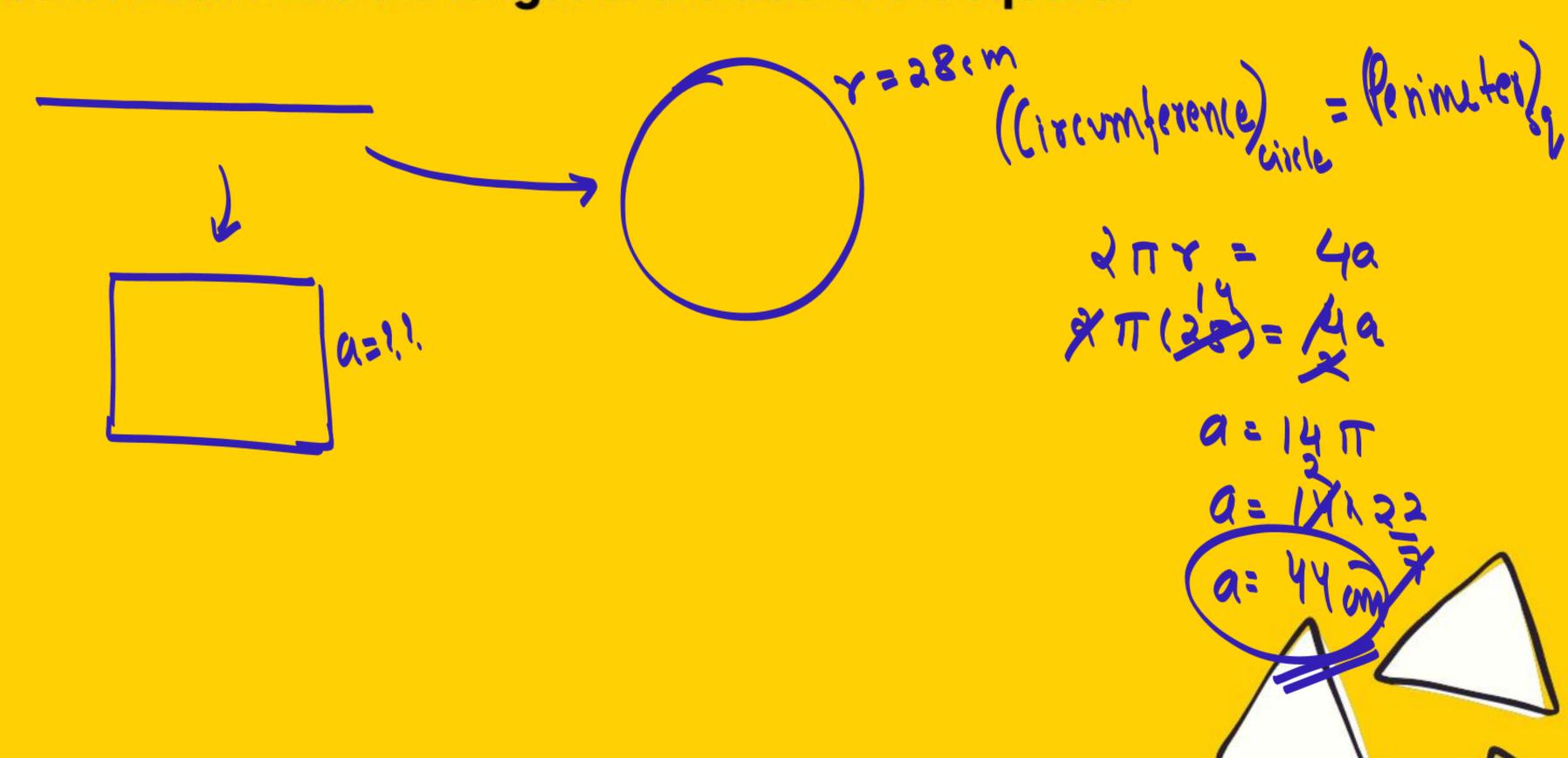
.00

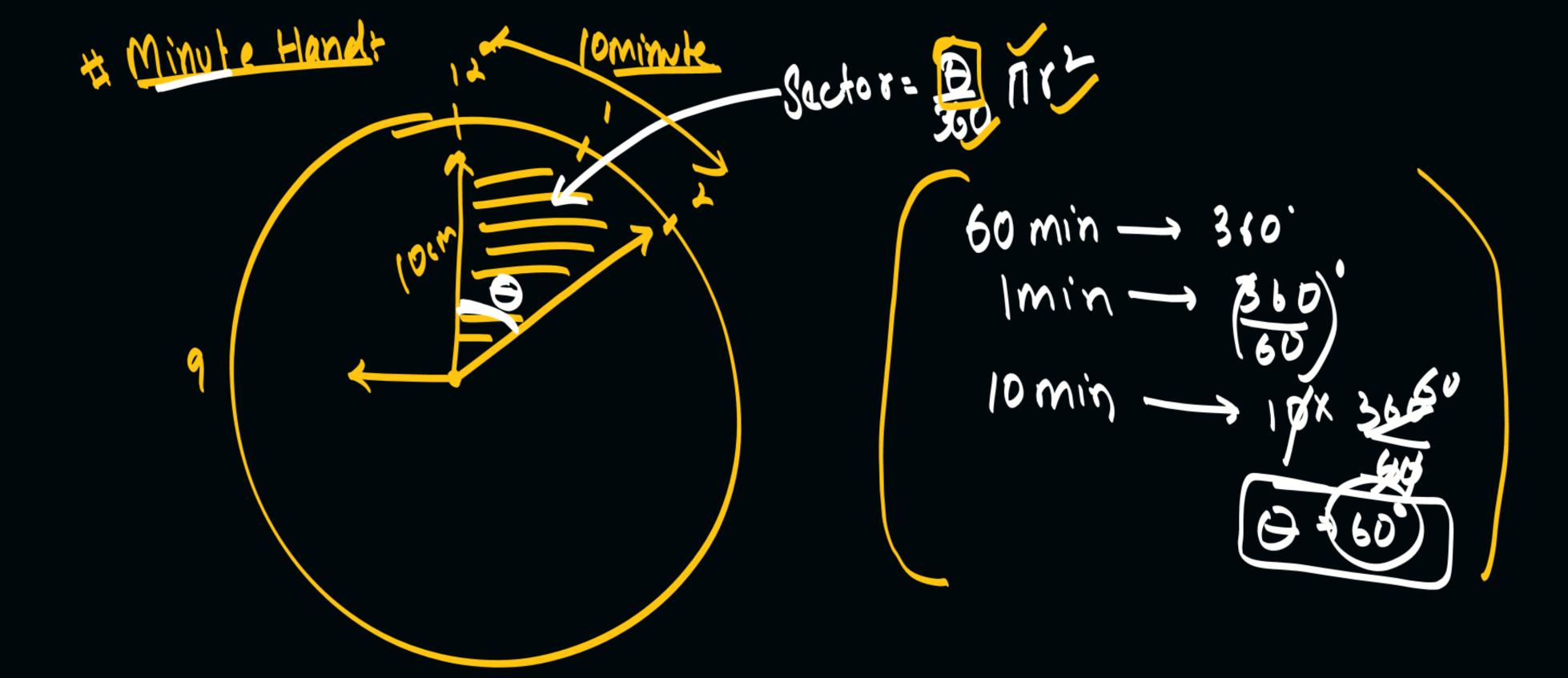
AREA RELATED TO CIRCLES





LP: A wire is looped in the form of a circle of radius 28 cm. It is re-bent into square form. Determine the length of the side of the square.





Seconds Hand: (v = 10 cm)

60 sec - 360,

16 ec - (360)

15 sec - (15 x 360) = 0

Hour hand + (1 = 10m)
Light 4 hs

$$(hr \longrightarrow 360)$$

$$(hr \longrightarrow (360)$$

$$(hr \longrightarrow (7x) 320)$$

$$($$



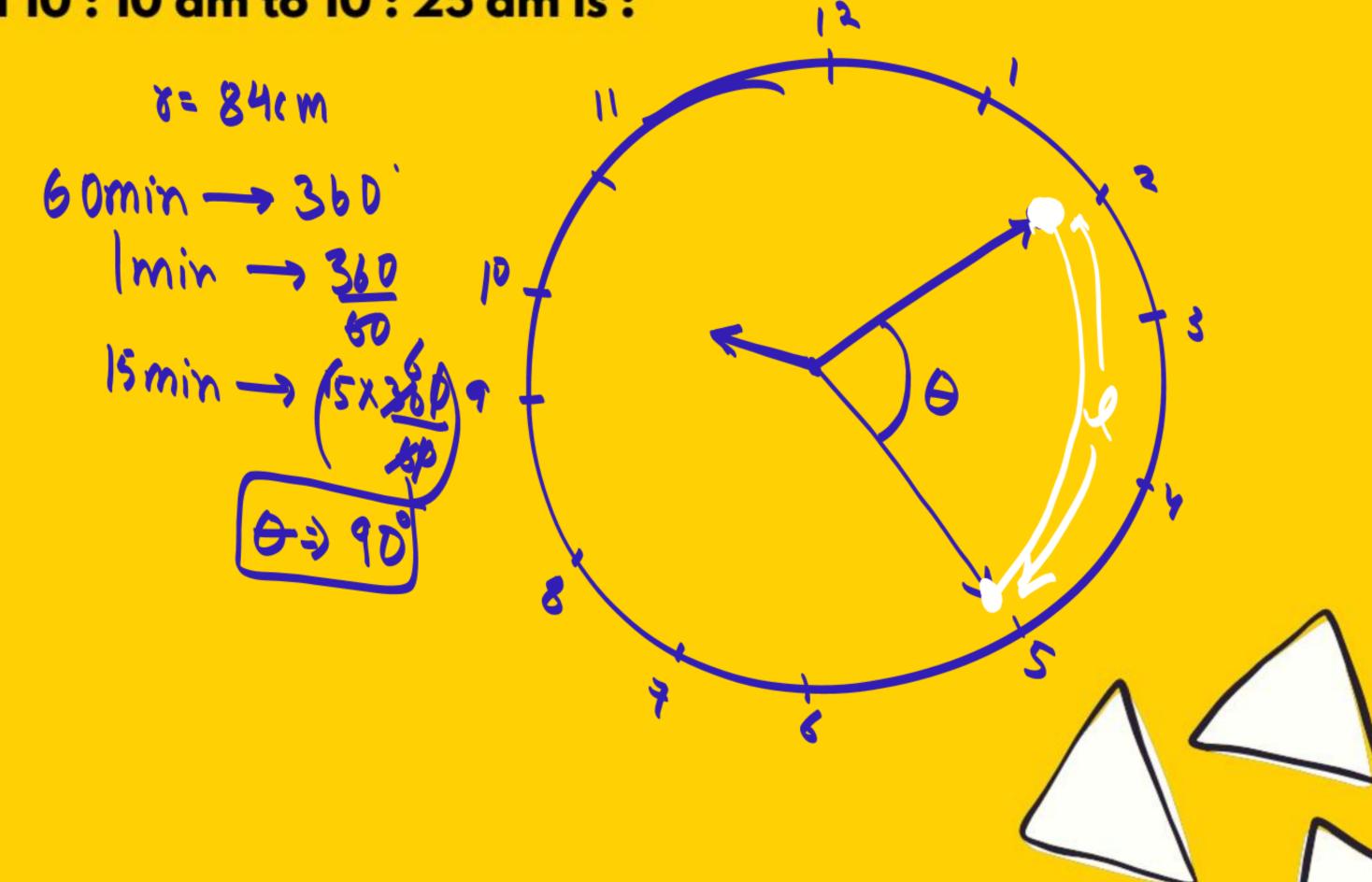
LP: The minute hand of a clock is 84 cm long. The distance covered by the tip of minute hand from 10: 10 am to 10: 25 am is:

a. 44 cm

b. 88 cm

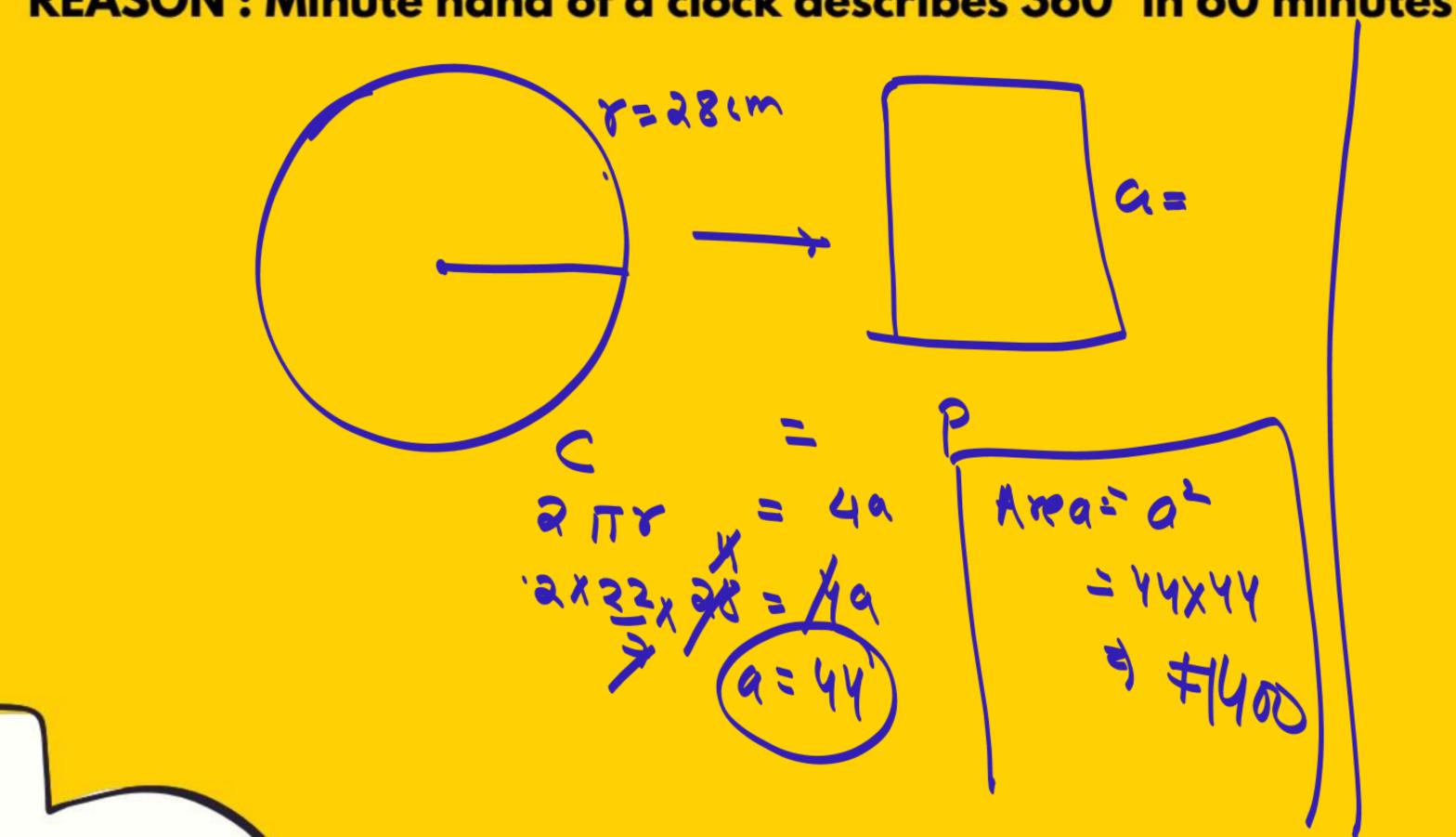
€. 132 cm

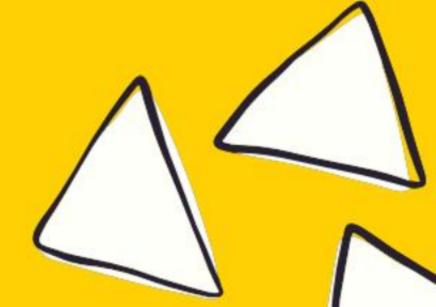
d. 176 cm





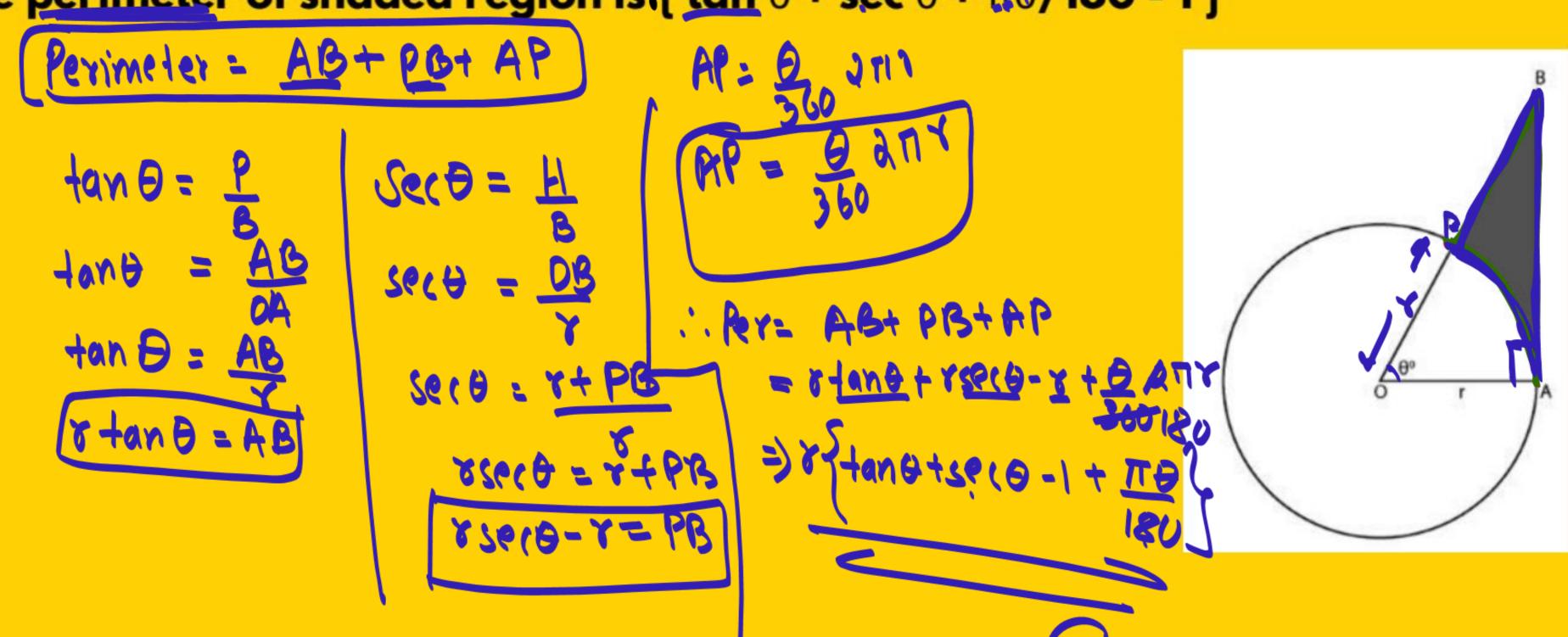
ASSERTION: A wire is looped in the form of a circle of radius 28 cm. If it is bent into a form of a square, then the area of the square is 1400 cm² (F) REASON: Minute hand of a clock describes 360° in 60 minutes





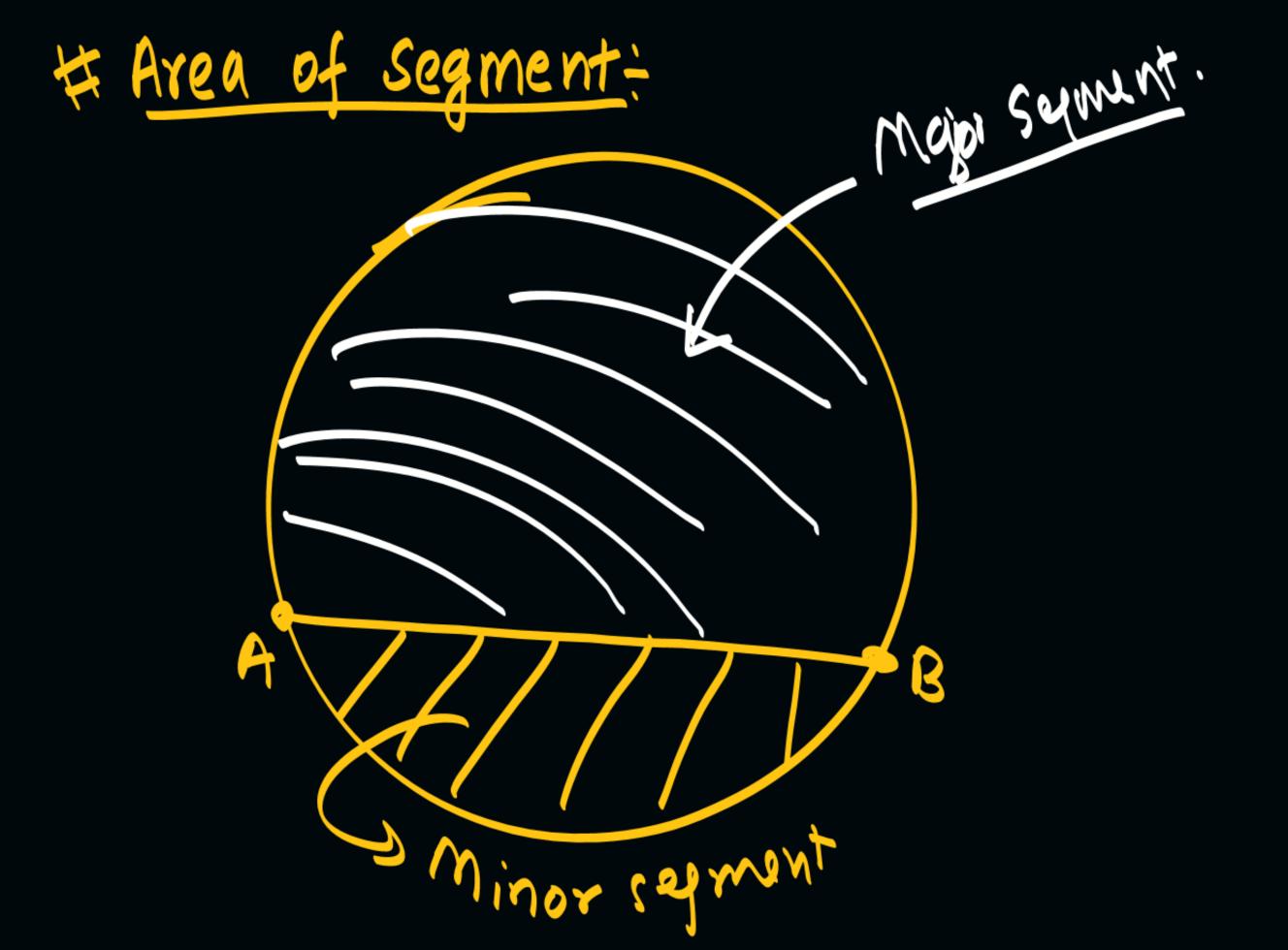


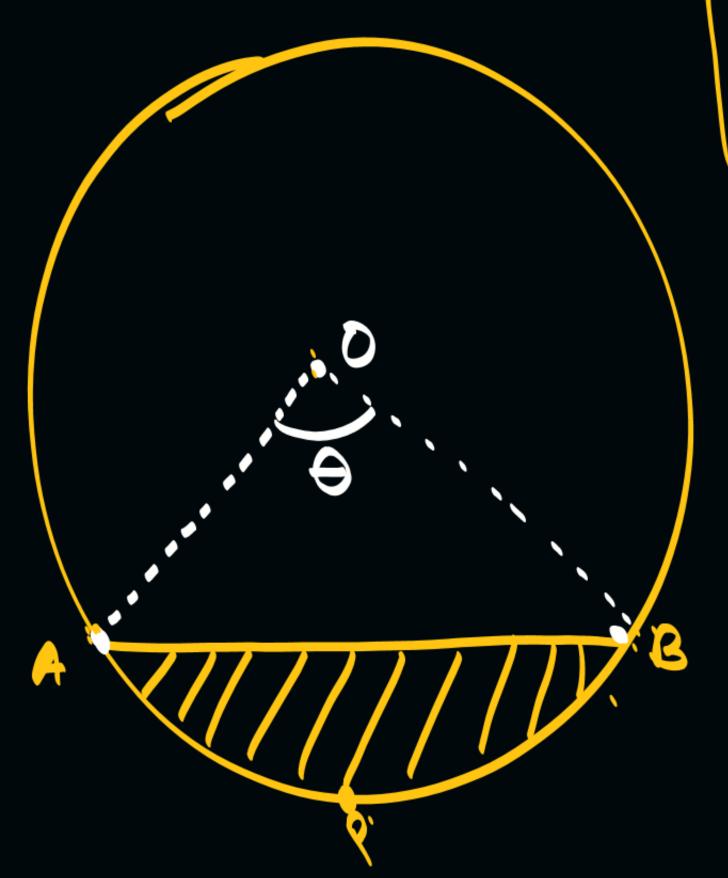
LP: In figure, is shown a sector OAP of a circle with centre O, containing $\angle\theta$. AB is perpendicular to the radius OA and meets OP produced at B. Prove that the perimeter of shaded region is $\{\tan\theta + \sec\theta + \pi\theta/180 - 1\}$



LP: Sides of a right triangular field are 25 m, 24 m and 7 m. At the three corners of the field, a cow, a buffalo and a horse are tied separately with ropes of 3.5 m each to graze in the field. Find the area of the field that cannot

ropes of 3.5 m each to graze in the field. Find the area of the field that cannot be grazed by these animals.





Area segment (APB)

= Ar Sector (DAPB) - Ar (ADAB)

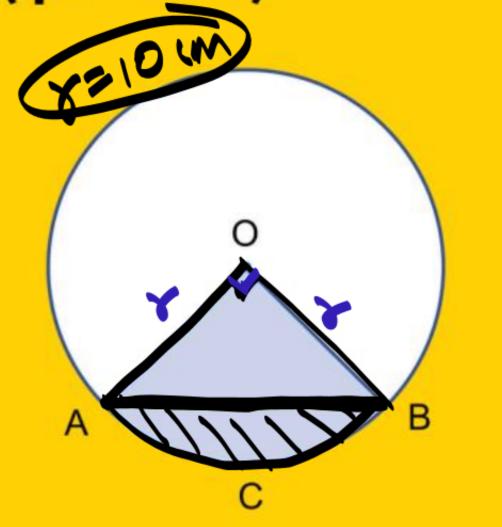
[Ar. of major segment = = Ar. of circle - Ar of minor segment



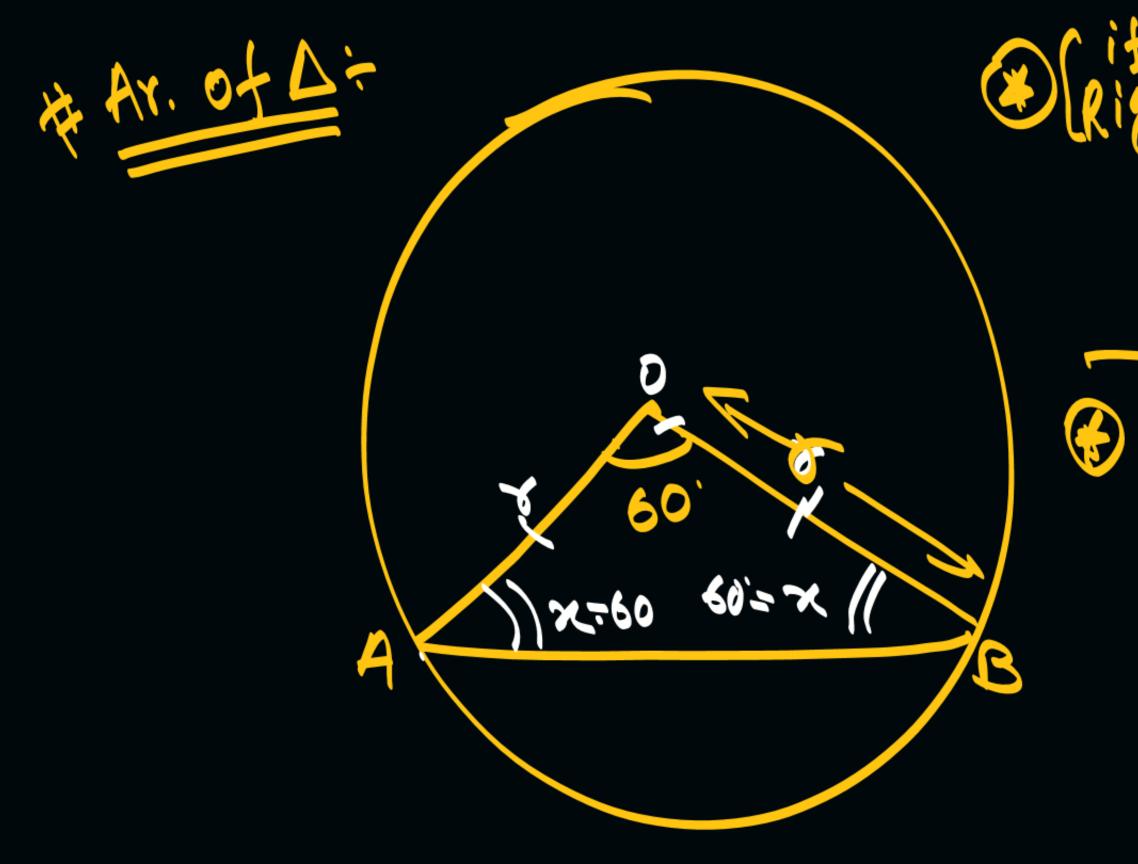
LP : A chord AB of a circle of radius 10 cm makes a right angle at the centre of the circle . Find the area of the major and minor segment . (pi = 3.14)

(i) Ar. of Minor comunt = Ar of sector - Ar of
$$\Delta$$

$$\frac{90}{360} (3.14)(10)^{2} - \left(\frac{1}{2} \times (10) \times (10)\right)$$
(ii) Ar. of Major seq = Ar. of circle - Ar. of Minor seq









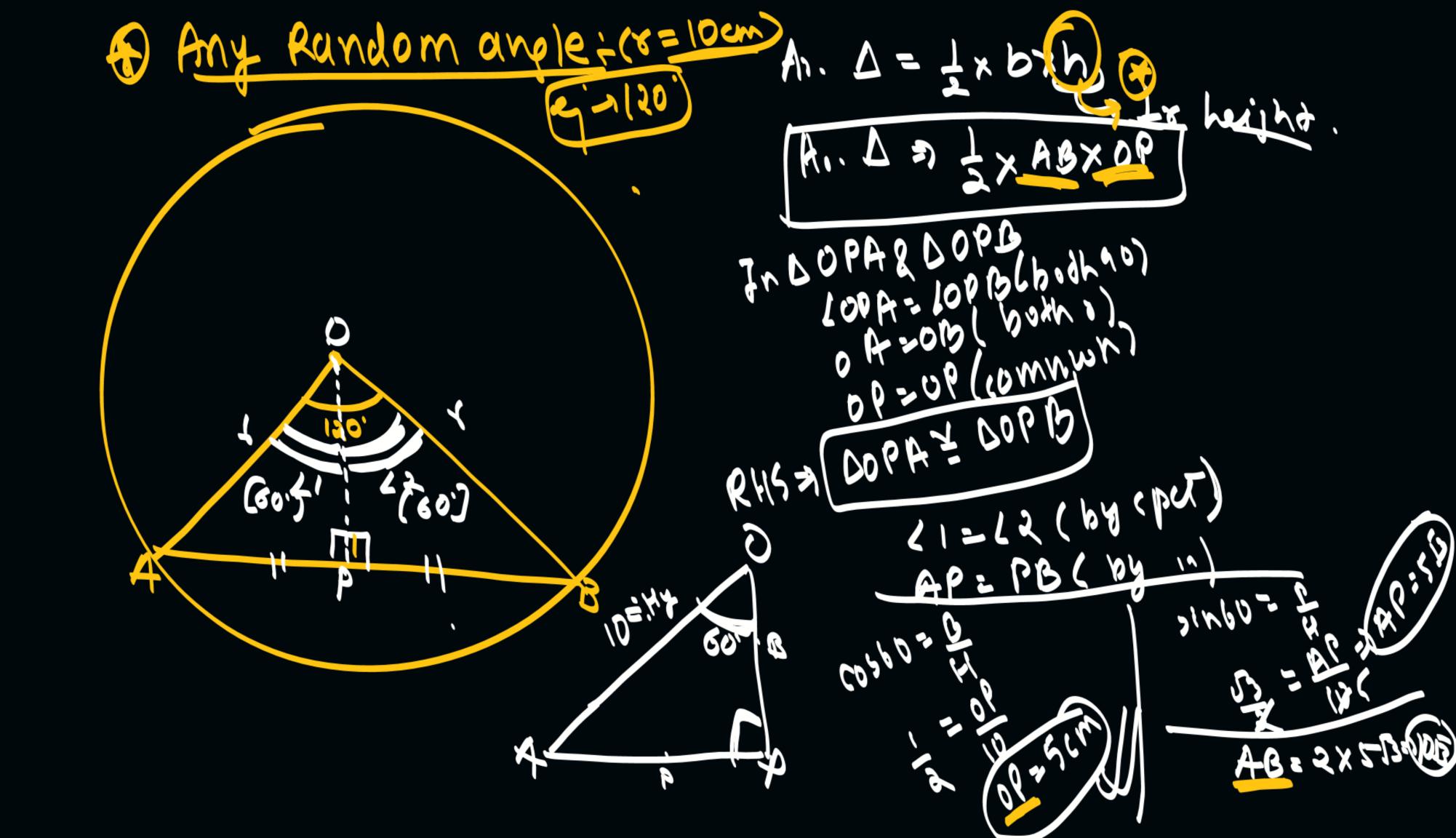
E) [if 60]

X + X + 60 = 180

AX = 180 -60

XX = 180 -60

Equilateraph = 15 az





: Find the area of the segment of circle, given that the angle of the sector is 120° and the radius of the circle is 21 cm. Take pi = 22/7



THANK 40M ES COOTES