

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Centre Number:
Candidate Number:

0580/22
Paper 2 (Extended)
Mathematics
November 2022
1 hour 30 minutes

Solved

- INSTRUCTIONS**
- Answer all questions.
 - Use a ruler to mark lines only. Do not use an eraser or any sharp object to mark.
 - Write your name, centre number and candidate number in the boxes at the top of the page.
 - Write your answers in black ink in the spaces provided.
 - Do not use an erasable pen or correction fluid.
 - Do not write on any bar codes.
 - You should use a calculator where appropriate.

1. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the area of the shaded region.

Solution:

Area of sector $AOB = \frac{90}{360} \times \pi \times 5^2 = \frac{25\pi}{4}$ cm²

Area of triangle $AOB = \frac{1}{2} \times 5 \times 5 = \frac{25}{2}$ cm²

Area of shaded region = Area of sector AOB - Area of triangle AOB

$= \frac{25\pi}{4} - \frac{25}{2}$ cm²

2. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the length of the arc AB .

Solution:

Angle $AOB = 90^\circ$

Length of arc $AB = \frac{90}{360} \times 2\pi \times 5 = \frac{5\pi}{2}$ cm

3. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the area of the shaded region.

Solution:

Area of sector $AOB = \frac{90}{360} \times \pi \times 5^2 = \frac{25\pi}{4}$ cm²

Area of triangle $AOB = \frac{1}{2} \times 5 \times 5 = \frac{25}{2}$ cm²

Area of shaded region = Area of sector AOB - Area of triangle AOB

$= \frac{25\pi}{4} - \frac{25}{2}$ cm²

4. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the length of the arc AB .

Solution:

Angle $AOB = 90^\circ$

Length of arc $AB = \frac{90}{360} \times 2\pi \times 5 = \frac{5\pi}{2}$ cm

5. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the area of the shaded region.

Solution:

Area of sector $AOB = \frac{90}{360} \times \pi \times 5^2 = \frac{25\pi}{4}$ cm²

Area of triangle $AOB = \frac{1}{2} \times 5 \times 5 = \frac{25}{2}$ cm²

Area of shaded region = Area of sector AOB - Area of triangle AOB

$= \frac{25\pi}{4} - \frac{25}{2}$ cm²

6. The diagram shows a circle with centre O and radius 5 cm. A chord AB is drawn such that AOB is a right-angled triangle.

Find the length of the arc AB .

Solution:

Angle $AOB = 90^\circ$

Length of arc $AB = \frac{90}{360} \times 2\pi \times 5 = \frac{5\pi}{2}$ cm

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Sai Gopal Sunkara



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