

$$(a) \quad (i) \quad \left(\frac{1}{2} \hat{A} \hat{O} \hat{B} = \right) \arccos \left(\frac{4}{4.5} \right) = 27.266... \quad (M1)(A1)$$

$$\hat{A} \hat{O} \hat{B} = 54.532... \approx 54.5^\circ \quad (0.951764... \approx 0.952 \text{ radians}) \quad A1$$

Note: Other methods may be seen; award **(M1)(A1)** for use of a correct trigonometric method to find an appropriate angle and then **A1** for the correct answer.

(ii) a finding area of triangle
EITHER

$$\text{area of triangle} = \frac{1}{2} \times 4.5^2 \times \sin(54.532...) \quad (M1)$$

Note: Award **M1** for correct substitution into formula.

$$= 8.24621... \approx 8.25 \text{ m}^2 \quad (A1)$$

OR

$$AB = 2 \times \sqrt{4.5^2 - 4^2} = 4.1231... \quad (M1)$$

$$\begin{aligned} \text{area triangle} &= \frac{4.1231... \times 4}{2} \\ &= 8.24621... \approx 8.25 \text{ (m}^2\text{)} \end{aligned} \quad (A1)$$

finding area of sector
EITHER

$$\text{area of sector} = \frac{54.532...}{360} \times \pi \times 4.5^2 \quad (M1)$$

$$= 9.63661... \approx 9.64 \text{ m}^2 \quad (A1)$$

OR

$$\text{area of sector} = \frac{1}{2} \times 0.9517641... \times 4.5^2 \quad (M1)$$

$$= 9.63661... \approx 9.64 \text{ m}^2 \quad (A1)$$

THEN

$$\begin{aligned} \text{area of segment} &= 9.63661... - 8.24621... \\ &= 1.39 \text{ m}^2 \quad (1.39040...) \end{aligned}$$

A1

[8 marks]

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Léo Pomar



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Table of Contents Ib Math HL Past Papers 2015

1. Understanding the eBook Ib Math HL Past Papers 2015
 - The Rise of Digital Reading Ib Math HL Past Papers 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math HL Past Papers 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ib Math HL Past Papers 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math HL Past Papers 2015
 - Personalized Recommendations
 - Ib Math HL Past Papers 2015 User Reviews and Ratings
 - Ib Math HL Past Papers 2015 and Bestseller Lists
5. Accessing Ib Math HL Past Papers 2015 Free and Paid eBooks
 - Ib Math HL Past Papers 2015 Public Domain eBooks
 - Ib Math HL Past Papers 2015 eBook Subscription Services
 - Ib Math HL Past Papers 2015 Budget-Friendly Options
6. Navigating Ib Math HL Past Papers 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Math HL Past Papers 2015 Compatibility with Devices
 - Ib Math HL Past Papers 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Math HL Past Papers 2015
 - Highlighting and Note-Taking Ib Math HL Past Papers 2015
 - Interactive Elements Ib Math HL Past Papers 2015
8. Staying Engaged with Ib Math HL Past Papers 2015

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ib Math HL Past Papers 2015
- 9. Balancing eBooks and Physical Books Ib Math HL Past Papers 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Math HL Past Papers 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Math HL Past Papers 2015
 - Setting Reading Goals Ib Math HL Past Papers 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Math HL Past Papers 2015
 - Fact-Checking eBook Content of Ib Math HL Past Papers 2015
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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