

8. (i) Prove that

$$\sec^2 x - \operatorname{cosec}^2 x = \tan^2 x - \cot^2 x.$$

(3)

(ii) Given that

$$y = \arccos x, \quad -1 \leq x \leq 1 \text{ and } 0 \leq y \leq \pi.$$

(a) express $\arcsin x$ in terms of y .

(2)

(b) Hence evaluate $\arccos x + \arcsin x$. Give your answer in terms of π .

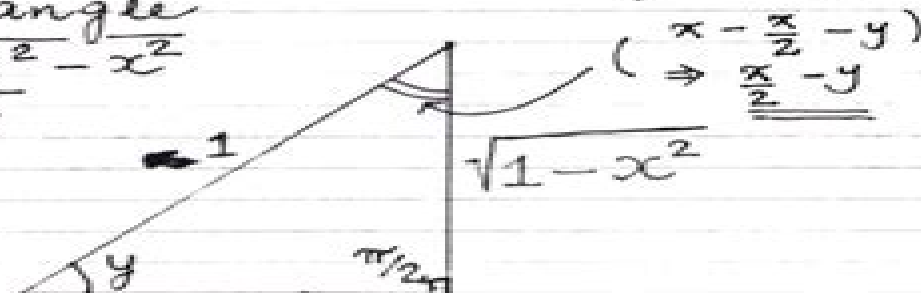
(1)

$$(ii) \quad y = \arccos x \Rightarrow y = \cos^{-1}(x)$$

$$\cos y = \frac{x}{1} \quad \leftarrow \frac{\text{ADJACENT}}{\text{HYP}} \quad (\text{SOH CAH TOA})$$

Let's show in a right-angle triangle

$$\begin{aligned} \text{OP}(y) &\Rightarrow \sqrt{1^2 - x^2} \\ &\Rightarrow \sqrt{1 - x^2} \end{aligned}$$



We know that -

$$\sin\left(\frac{x}{2} - y\right) = \frac{x}{1}$$

$$\therefore \text{So, } \frac{x}{2} - y = \sin^{-1}(x)$$

$$\arcsin x = \frac{x}{2} - y \quad \underline{\text{Ans}}$$



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1. Understanding the eBook January 2015 Pure Maths Edexcel Igcse
 - The Rise of Digital Reading January 2015 Pure Maths Edexcel Igcse
 - Advantages of eBooks Over Traditional Books
2. Identifying January 2015 Pure Maths Edexcel Igcse
 - 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 January 2015 Pure Maths Edexcel Igcse
 - User-Friendly Interface
4. Exploring eBook Recommendations from January 2015 Pure Maths Edexcel Igcse
 - Personalized Recommendations
 - January 2015 Pure Maths Edexcel Igcse User Reviews and Ratings

- January 2015 Pure Maths Edexcel Igcse and Bestseller Lists
- 5. Accessing January 2015 Pure Maths Edexcel Igcse Free and Paid eBooks
 - January 2015 Pure Maths Edexcel Igcse Public Domain eBooks
 - January 2015 Pure Maths Edexcel Igcse eBook Subscription Services
 - January 2015 Pure Maths Edexcel Igcse Budget-Friendly Options
- 6. Navigating January 2015 Pure Maths Edexcel Igcse eBook Formats
 - ePub, PDF, MOBI, and More
 - January 2015 Pure Maths Edexcel Igcse Compatibility with Devices
 - January 2015 Pure Maths Edexcel Igcse Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of January 2015 Pure Maths Edexcel Igcse
 - Highlighting and Note-Taking January 2015 Pure Maths Edexcel Igcse
 - Interactive Elements January 2015 Pure Maths Edexcel Igcse
- 8. Staying Engaged with January 2015 Pure Maths Edexcel Igcse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers January 2015 Pure Maths Edexcel Igcse
- 9. Balancing eBooks and Physical Books January 2015 Pure Maths Edexcel Igcse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection January 2015 Pure Maths Edexcel Igcse
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine January 2015 Pure Maths Edexcel Igcse
 - Setting Reading Goals January 2015 Pure Maths Edexcel Igcse
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of January 2015 Pure Maths Edexcel Igcse
 - Fact-Checking eBook Content of January 2015 Pure Maths Edexcel Igcse
 - 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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