

Subject – Math(Higher Level)  
Topic - Circular trigonometry  
Year - Nov 2011 – Nov 2019  
Paper 2

Question 1

[Maximum mark: 5]

- (a) Given that  $\arctan \frac{1}{2} + \arctan \frac{1}{3} = \arctan a$ ,  $a \in \mathbb{Q}^+$ , find the value of  $a$ . [3 marks]
- (b) Hence, or otherwise, solve the equation  $\arcsin x = \arctan a$ . [2 marks]

Question 2

[Maximum mark: 8]

Consider a triangle ABC with  $\angle A = 45.7^\circ$ ,  $AB = 9.63$  cm and  $BC = 7.5$  cm.

- (a) By drawing a diagram, show why there are two triangles consistent with this information. [2 marks]
- (b) Find the possible values of  $AC$ . [6 marks]

Question 3

[Maximum mark: 8]

Two discs, one of radius 8 cm and one of radius 5 cm, are placed such that they touch each other. A piece of string is wrapped around the discs. This is shown in the diagram below.

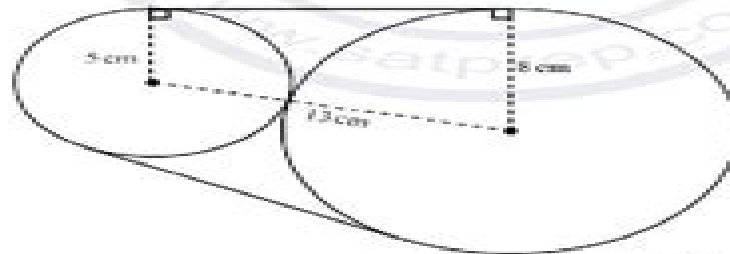


diagram not to  
scale

Calculate the length of string needed to go around the discs.

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**Michael Brown**



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## Enjoying the Track of Phrase: An Mental Symphony within **Math Hl Papertz2nov**

In a world taken by screens and the ceaseless chatter of fast interaction, the melodic beauty and psychological symphony developed by the written term usually fade into the backdrop, eclipsed by the persistent noise and distractions that permeate our lives. But, situated within the pages of **Math Hl Papertz2nov** a marvelous literary prize overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that charming masterpiece conducts readers on an emotional journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully crafted phrase. Within the depths of the moving analysis, we will investigate the book is key harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Math Hl Papertz2nov**

1. Understanding the eBook Math Hl Papertz2nov
  - The Rise of Digital Reading Math Hl Papertz2nov
  - Advantages of eBooks Over Traditional Books
2. Identifying Math Hl Papertz2nov
  - 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 Math Hl Papertz2nov
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math Hl Papertz2nov
  - Personalized Recommendations

- 
- Math HL Papertz2nov User Reviews and Ratings
  - Math HL Papertz2nov and Bestseller Lists
5. Accessing Math HL Papertz2nov Free and Paid eBooks
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    - Math HL Papertz2nov Budget-Friendly Options
  6. Navigating Math HL Papertz2nov eBook Formats
    - ePub, PDF, MOBI, and More
    - Math HL Papertz2nov Compatibility with Devices
    - Math HL Papertz2nov Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Math HL Papertz2nov
    - Highlighting and Note-Taking Math HL Papertz2nov
    - Interactive Elements Math HL Papertz2nov
  8. Staying Engaged with Math HL Papertz2nov
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Math HL Papertz2nov
  9. Balancing eBooks and Physical Books Math HL Papertz2nov
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Math HL Papertz2nov
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Math HL Papertz2nov
    - Setting Reading Goals Math HL Papertz2nov
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Math HL Papertz2nov
    - Fact-Checking eBook Content of Math HL Papertz2nov

- 
- 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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