

QUESTION 1.1

(a) Explain the difference between a function and a relation. (4)

(b) Determine whether the following are functions or relations:

i. $x = \sqrt{25 - y^2}$

ii. $y = e^x$

iii. $\frac{x}{4} + \frac{y}{9} = 1$

iv. $x = 4y^2 + y - 6$ (4) [8]

[8]

QUESTION 1.2

(a) Convert the following angles to radians:

i. 270° (2)

ii. 315° (2)

(b) Convert the following angles to degrees:

i. $\frac{2\pi}{3}$ (2)

ii. $\frac{5\pi}{6}$ (2) [8]

[8]

QUESTION 1.3

Define 'trigonometry'. [1]

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Table of Contents Mathematics N4 Questions And Answers

1. Understanding the eBook Mathematics N4 Questions And Answers
 - The Rise of Digital Reading Mathematics N4 Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N4 Questions And Answers
 - 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 Mathematics N4 Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N4 Questions And Answers

- Personalized Recommendations
- Mathematics N4 Questions And Answers User Reviews and Ratings
- Mathematics N4 Questions And Answers and Bestseller Lists
- 5. Accessing Mathematics N4 Questions And Answers Free and Paid eBooks
 - Mathematics N4 Questions And Answers Public Domain eBooks
 - Mathematics N4 Questions And Answers eBook Subscription Services
 - Mathematics N4 Questions And Answers Budget-Friendly Options
- 6. Navigating Mathematics N4 Questions And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics N4 Questions And Answers Compatibility with Devices
 - Mathematics N4 Questions And Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics N4 Questions And Answers
 - Highlighting and Note-Taking Mathematics N4 Questions And Answers
 - Interactive Elements Mathematics N4 Questions And Answers
- 8. Staying Engaged with Mathematics N4 Questions And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics N4 Questions And Answers
- 9. Balancing eBooks and Physical Books Mathematics N4 Questions And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics N4 Questions And Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics N4 Questions And Answers
 - Setting Reading Goals Mathematics N4 Questions And Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics N4 Questions And Answers

- Fact-Checking eBook Content of Mathematics N4 Questions And Answers
- 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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