

Extended Mathematics
Topic : Algebra -2
Year :May 2013 -May 2022
Paper - 2
Questions

Question 1

Rearrange $y = \sqrt{8 + \frac{4}{x}}$ to make x the subject.

[4] Answer $x =$

Question 2

Write as a single fraction in its simplest form.

$$\frac{x+3}{x-3} - \frac{x-1}{x+1}$$

Answer [4]

Question 3

Solve $3n + 23 < n + 41$.

[4] Answer [4]

Question 4

The mass, m , of a sphere varies directly with the cube of its radius, r .
 $m = 160$ when $r = 2$.

Find m when $r = 5$.

Answer $m =$ [3]

Question 5

Solve $6x + 3 < x < 3x + 9$ for integer values of x .

Answer [4]

Question 6

y is inversely proportional to x^2 .
 $y = 5$ when $x = 2$.

Find y when $x = 4$.

Answer $y =$ [3]

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Julia Schneider



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Table of Contents Igcse Math Extended Past Papers

1. Understanding the eBook Igcse Math Extended Past Papers
 - The Rise of Digital Reading Igcse Math Extended Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Math Extended Past Papers
 - 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 Igcse Math Extended Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Math Extended Past Papers

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

- Fact-Checking eBook Content of Igcse Math Extended Past Papers
 - 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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