

INDICES & SURDS

① Given $k = \frac{1}{\sqrt{3}}$ and that $p = \frac{1+k}{1-k}$ express in its simplest surd form

- (i) p
(ii) $p - \frac{1}{p}$

THE MATHS CENTRE

①

$$k = \frac{1}{\sqrt{3}} \quad p = \frac{1+k}{1-k}$$

THE MATHS CENTRE

$$\begin{aligned} \text{i) } p &= \frac{(1 + \frac{1}{\sqrt{3}})}{(1 - \frac{1}{\sqrt{3}})} = \frac{(\frac{\sqrt{3}+1}{\sqrt{3}})}{(\frac{\sqrt{3}-1}{\sqrt{3}})} = \left(\frac{\sqrt{3}+1}{\cancel{\sqrt{3}}}\right) \left(\frac{\cancel{\sqrt{3}}}{\sqrt{3}-1}\right) = \frac{\sqrt{3}+1}{\sqrt{3}-1} \\ &= \frac{(\sqrt{3}+1)(\sqrt{3}+1)}{(\sqrt{3}-1)(\sqrt{3}+1)} \end{aligned}$$

$$\begin{aligned} \text{ii) } p - \frac{1}{p} &= (2+\sqrt{3}) - \frac{1}{(2+\sqrt{3})} \\ &= \frac{(2+\sqrt{3})^2 - 1}{2+\sqrt{3}} \end{aligned}$$

THE MATHS CENTRE

$$= \frac{4+3+4\sqrt{3}-1}{2+\sqrt{3}} = \frac{6+4\sqrt{3}}{2+\sqrt{3}}$$

$$\begin{aligned} &= \frac{(6+4\sqrt{3})(2-\sqrt{3})}{(2+\sqrt{3})(2-\sqrt{3})} = \frac{\cancel{12} - \cancel{4\sqrt{3}} + 8\sqrt{3} - 6\sqrt{3}}{4-3} \\ &= 2\sqrt{3} \end{aligned}$$

THE MATHS CENTRE

Igcse Year 10 Maths Past Papers

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Velavancorresponding



Igcse Year 10 Maths Past Papers:

Igcse Year 10 Maths Past Papers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Igcse Year 10 Maths Past Papers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Igcse Year 10 Maths Past Papers

1. Understanding the eBook Igcse Year 10 Maths Past Papers
 - The Rise of Digital Reading Igcse Year 10 Maths Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Year 10 Maths 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 Year 10 Maths Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Year 10 Maths Past Papers
 - Personalized Recommendations
 - Igcse Year 10 Maths Past Papers User Reviews and Ratings
 - Igcse Year 10 Maths Past Papers and Bestseller Lists

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