



**PREPARATORY EXAMINATION**  
**2022**

**2022**  
**MATHEMATICS**  
**PAPER 1**

TIME: 2 hours

MARKS: 100

062/MATHEMATICS/Prep 1



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18 pages + 1 Information Sheet

**X05**



**QUESTION 1**

1.1 Solve for  $x$ .

1.1.1  $3x^2 + 12 = 0$  (10)

1.1.2  $x + 6 + \frac{1}{x} + \frac{1}{x+6} = 0$  (answer in TWO decimal places) (10)

1.1.3  $x^2 + 16x + 64 = 0$  (10)

1.1.4  $\sqrt{x+3} + 1 = \frac{2}{\sqrt{x+3}}$  (10)

1.2 Solve for  $x$  and  $y$ .

$x + 2y = 3$  and  $3x^2 + 4xy + 6y^2 = 2 + 6x$  (10)

1.3 Given:  $2^{x+1} + 2^y = 2^{x+1} + 2$ , where  $x$  and  $y$  are integers.  
Determine the value of  $x$  and  $y$ . (10)

1.4 The equations of two sides of  $\triangle ABC$  are  $x + y = 1$  and  $2x + y = 6$ .  
Determine the values of  $\cos A$  and  $\sin A$ . (10)

# Mathematics P1 2013 Half Yearly Gauteng

**J Elliott**



**Mathematics P1 2013 Half Yearly Gauteng:**

## Reviewing **Mathematics P1 2013 Half Yearly Gauteng**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Mathematics P1 2013 Half Yearly Gauteng**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Mathematics P1 2013 Half Yearly Gauteng**

1. Understanding the eBook Mathematics P1 2013 Half Yearly Gauteng
  - The Rise of Digital Reading Mathematics P1 2013 Half Yearly Gauteng
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics P1 2013 Half Yearly Gauteng
  - 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 P1 2013 Half Yearly Gauteng
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics P1 2013 Half Yearly Gauteng
  - Personalized Recommendations
  - Mathematics P1 2013 Half Yearly Gauteng User Reviews and Ratings

- Mathematics P1 2013 Half Yearly Gauteng and Bestseller Lists
- 5. Accessing Mathematics P1 2013 Half Yearly Gauteng Free and Paid eBooks
  - Mathematics P1 2013 Half Yearly Gauteng Public Domain eBooks
  - Mathematics P1 2013 Half Yearly Gauteng eBook Subscription Services
  - Mathematics P1 2013 Half Yearly Gauteng Budget-Friendly Options
- 6. Navigating Mathematics P1 2013 Half Yearly Gauteng eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics P1 2013 Half Yearly Gauteng Compatibility with Devices
  - Mathematics P1 2013 Half Yearly Gauteng Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics P1 2013 Half Yearly Gauteng
  - Highlighting and Note-Taking Mathematics P1 2013 Half Yearly Gauteng
  - Interactive Elements Mathematics P1 2013 Half Yearly Gauteng
- 8. Staying Engaged with Mathematics P1 2013 Half Yearly Gauteng
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics P1 2013 Half Yearly Gauteng
- 9. Balancing eBooks and Physical Books Mathematics P1 2013 Half Yearly Gauteng
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics P1 2013 Half Yearly Gauteng
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics P1 2013 Half Yearly Gauteng
  - Setting Reading Goals Mathematics P1 2013 Half Yearly Gauteng
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics P1 2013 Half Yearly Gauteng
  - Fact-Checking eBook Content of Mathematics P1 2013 Half Yearly Gauteng
  - 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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