

**SECTION A****QUESTION 1**(a) Solve for  $x$ :

(1)  $(x+2)^2 = 3x(x-2)$   
giving your answers correct to one decimal digit. (5)

(2)  $x^2 - 9x \geq 36$ . (4)

(3)  $3^x - 3^{x-2} = 72$ . (4)

(b) Given:  $(2m - 3)(n + 5) = 0$ .

Solve for:

(1)  $n$  if  $m = 1$ . (1)

(2)  $m$  if  $n \neq -5$ . (1)

(3)  $m$  if  $n = -5$ . (2)

**[17]****QUESTION 2**

(a) Evaluate:  $\sum_{k=2}^6 \frac{2^{k-1}}{k}$ . (3)

(b) The number of members of a new social networking site doubles every day. On day 1 there were 27 members and on day 2 there were 54 members.

(1) Calculate the number of members there were on day 12. (2)

(2) The site earns half a cent per member per day. Calculate the amount of money that the site earned in the first 12 days.  
Give your answer to the nearest Rand. (4)

(c) Gina plans to start a fitness programme by going for a run each Sunday. On the first Sunday she runs 1 km and plans to increase the distance by 750 m each Sunday. When Gina reaches 10 km, she will continue to run 10 km each Sunday thereafter.



(1) Calculate the distance that Gina will run on the 9<sup>th</sup> Sunday. (3)

(2) Determine on which Sunday Gina will first run 10 km. (2)

(3) Calculate the total distance that Gina will run over the first 24 Sundays. (4)

**[18]**

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### **Table of Contents 2013 Mathematics Paperfinal Exam Grade1memorandum**

1. Understanding the eBook 2013 Mathematics Paperfinal Exam Grade1memorandum
  - The Rise of Digital Reading 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Mathematics Paperfinal Exam Grade1memorandum
  - 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 2013 Mathematics Paperfinal Exam Grade1memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Personalized Recommendations

- 2013 Mathematics Paperfinal Exam Grade1memorandum User Reviews and Ratings
- 2013 Mathematics Paperfinal Exam Grade1memorandum and Bestseller Lists
- 5. Accessing 2013 Mathematics Paperfinal Exam Grade1memorandum Free and Paid eBooks
  - 2013 Mathematics Paperfinal Exam Grade1memorandum Public Domain eBooks
  - 2013 Mathematics Paperfinal Exam Grade1memorandum eBook Subscription Services
  - 2013 Mathematics Paperfinal Exam Grade1memorandum Budget-Friendly Options
- 6. Navigating 2013 Mathematics Paperfinal Exam Grade1memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - 2013 Mathematics Paperfinal Exam Grade1memorandum Compatibility with Devices
  - 2013 Mathematics Paperfinal Exam Grade1memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Highlighting and Note-Taking 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Interactive Elements 2013 Mathematics Paperfinal Exam Grade1memorandum
- 8. Staying Engaged with 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2013 Mathematics Paperfinal Exam Grade1memorandum
- 9. Balancing eBooks and Physical Books 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2013 Mathematics Paperfinal Exam Grade1memorandum
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Setting Reading Goals 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 Mathematics Paperfinal Exam Grade1memorandum
  - Fact-Checking eBook Content of 2013 Mathematics Paperfinal Exam Grade1memorandum

- 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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