

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 $n = -5$. (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 9th 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 Maths Exam Papers

1. Understanding the eBook 2013 Maths Exam Papers
 - The Rise of Digital Reading 2013 Maths Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Maths Exam 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 2013 Maths Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Maths Exam Papers
 - Personalized Recommendations
 - 2013 Maths Exam Papers User Reviews and Ratings
 - 2013 Maths Exam Papers and Bestseller Lists
5. Accessing 2013 Maths Exam Papers Free and Paid eBooks

- 2013 Maths Exam Papers Public Domain eBooks
- 2013 Maths Exam Papers eBook Subscription Services
- 2013 Maths Exam Papers Budget-Friendly Options

6. Navigating 2013 Maths Exam Papers eBook Formats

- ePUB, PDF, MOBI, and More
- 2013 Maths Exam Papers Compatibility with Devices
- 2013 Maths Exam Papers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 2013 Maths Exam Papers
- Highlighting and Note-Taking 2013 Maths Exam Papers
- Interactive Elements 2013 Maths Exam Papers

8. Staying Engaged with 2013 Maths Exam Papers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 2013 Maths Exam Papers

9. Balancing eBooks and Physical Books 2013 Maths Exam Papers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 2013 Maths Exam Papers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 2013 Maths Exam Papers

- Setting Reading Goals 2013 Maths Exam Papers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 2013 Maths Exam Papers

- Fact-Checking eBook Content of 2013 Maths Exam 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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