

## QUESTION 1

1.1 Solve for  $x$ :

1.1.1  $x^2 + 5x - 6 = 0$  (3)

1.1.2  $4x^2 + 3x - 5 = 0$  (correct to TWO decimal places) (3)

1.1.3  $4x^2 - 1 < 0$  (3)

1.1.4  $\left(\sqrt{\sqrt{32+x}}\right)\left(\sqrt{\sqrt{32-x}}\right) = x$  (4)

1.2 Solve simultaneously for  $x$  and  $y$ :

$y + x = 12$  and  $xy = 14 - 3x$  (5)

1.3 Consider the product  $1 \times 2 \times 3 \times 4 \times \dots \times 30$ .

Determine the largest value of  $k$  such that  $3^k$  is a factor of this product. (4)

[22]

## QUESTION 2

2.1 Given the quadratic sequence: 321 ; 290 ; 261 ; 234 ; ....

2.1.1 Write down the values of the next TWO terms of the sequence. (2)

2.1.2 Determine the general term of the sequence in the form  $T_n = an^2 + bn + c$ . (4)

2.1.3 Which term(s) of the sequence will have a value of 74? (4)

2.1.4 Which term in the sequence has the least value? (2)

2.2 Given the geometric series:  $\frac{5}{8} + \frac{5}{16} + \frac{5}{32} + \dots = K$

2.2.1 Determine the value of  $K$  if the series has 21 terms. (3)

2.2.2 Determine the largest value of  $n$  for which  $T_n > \frac{5}{8192}$  (4)

[19]

# Mathematics Paper 1 November 2013

**Florentin Smarandache**



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## **Table of Contents Mathematics Paper 1 November 2013**

1. Understanding the eBook Mathematics Paper 1 November 2013
  - The Rise of Digital Reading Mathematics Paper 1 November 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1 November 2013
  - 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 Paper 1 November 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1 November 2013
  - Personalized Recommendations
  - Mathematics Paper 1 November 2013 User Reviews and Ratings
  - Mathematics Paper 1 November 2013 and Bestseller Lists
5. Accessing Mathematics Paper 1 November 2013 Free and Paid eBooks
  - Mathematics Paper 1 November 2013 Public Domain eBooks
  - Mathematics Paper 1 November 2013 eBook Subscription Services
  - Mathematics Paper 1 November 2013 Budget-Friendly Options
6. Navigating Mathematics Paper 1 November 2013 eBook Formats

- ePub, PDF, MOBI, and More
  - Mathematics Paper 1 November 2013 Compatibility with Devices
  - Mathematics Paper 1 November 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Paper 1 November 2013
  - Highlighting and Note-Taking Mathematics Paper 1 November 2013
  - Interactive Elements Mathematics Paper 1 November 2013
8. Staying Engaged with Mathematics Paper 1 November 2013
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Paper 1 November 2013
9. Balancing eBooks and Physical Books Mathematics Paper 1 November 2013
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Paper 1 November 2013
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 1 November 2013
- Setting Reading Goals Mathematics Paper 1 November 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 1 November 2013
- Fact-Checking eBook Content of Mathematics Paper 1 November 2013
  - 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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