

## Final Exam Review

### Series and Sequences

1. Consider the infinite geometric series  $405 + 270 + 180 + \dots$ .
- (a) For this series, find the common ratio, giving your answer as a fraction in its simplest form.
  - (b) Find the fifteenth term of this series.
  - (c) Find the **exact** value of the sum of the infinite series.
- (Total 6 marks)
2. A sum of \$5000 is invested at a compound interest rate of 6.3% per annum.
- (a) Write down an expression for the value of the investment after  $n$  full years.
  - (b) What will be the value of the investment at the end of five years?
  - (c) The value of the investment will exceed \$10000 after  $n$  full years.
    - (i) Write down an inequality to represent this information.
    - (ii) Calculate the minimum value of  $n$ .
- (Total 6 marks)
3. Let  $S_n$  be the sum of the first  $n$  terms of the arithmetic series  $2 + 4 + 6 + \dots$ .
- (a) Find
    - (i)  $S_{40}$
    - (ii)  $S_{100}$ .
- (4)
- Let  $M = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}$ .
- (b) (i) Find  $M^2$ .
  - (ii) Show that  $M^3 = \begin{pmatrix} 1 & 6 \\ 0 & 1 \end{pmatrix}$ .
- (5)
- It may now be assumed that  $M^n = \begin{pmatrix} 1 & 2n \\ 0 & 1 \end{pmatrix}$ , for  $n \geq 4$ . The sum  $T_n$  is defined by
- $$T_n = M^1 + M^2 + M^3 + \dots + M^n.$$
- (c) (i) Write down  $M^4$ .
  - (ii) Find  $T_4$ .
- (4)
- (d) Using your results from part (a) (ii), find  $T_{100}$ .
- (3)
- (Total 16 marks)

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**J Spring**



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## **Table of Contents Solutions Ib Math SI 2013**

1. Understanding the eBook Solutions Ib Math SI 2013
  - The Rise of Digital Reading Solutions Ib Math SI 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Ib Math SI 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 Solutions Ib Math SI 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Ib Math SI 2013
  - Personalized Recommendations

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