

Section A: Pure Mathematics [40 marks]

1. A curve C has parametric equations

$$x = t^3 - 12t, \quad y = t - 2 \quad \text{for } t \leq 2.$$

- (i) Sketch C , labelling the coordinates of any end points. [2]

A line l has equation $y = m(x + 16)$, where m is positive. It is given that l intersects C at the points where $t = 2$ and $t = k$, where $k \leq -4$.

- (ii) Show that the area of the region bounded by C and l is $6k^3 - \frac{k^4}{4} - 16k + 12 + \frac{(k-2)^2}{2m}$. [5]

2. An Art teacher teaches her students to create patterns using squares of different sizes. One possible pattern is to begin with the first square with sides of length 2 mm. The first square is inscribed in the second square, where the corners of the first square coincide with the midpoints of the second square. She continues inscribing squares in this manner where the n^{th} square is inscribed in the $(n+1)^{\text{th}}$ square. **Figure 1** shows a piece of artwork after 4 squares are drawn.

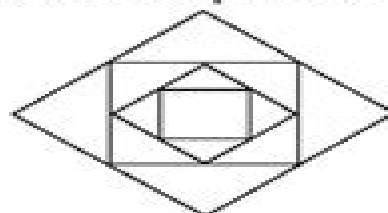


Figure 1

By using this pattern, Student A begins his artwork

- (i) Find, in terms of n , the length of the sides of the n^{th} square. [2]
 (ii) A standard A4 paper measures 210 mm by 297 mm. Find the maximum number of complete squares that he can draw on the paper. [2]

Student B uses a giant drawing board and decides to make his artwork more eye-catching. He uses the same pattern and measurements as Student A, but he shades the 1st square and also shades on any protruding areas covered by the 4th, 7th, ..., $(3N+1)^{\text{th}}$ squares, where N is a non-negative integer. A protruding area is defined by the region bounded by the newly drawn square and the square immediately preceding it. **Figure 2** shows a piece of artwork if he draws 4 squares.

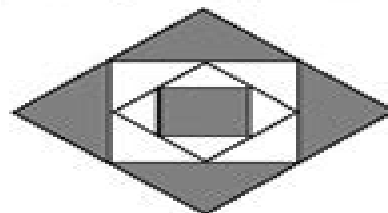


Figure 2

- (iii) Find, in mm^2 , the total shaded area as shown in **Figure 2**. [2]
 (iv) Hence or otherwise, find the total shaded area if he draws 30 squares. Give your answer in m^2 . [3]

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Table of Contents Max Papers Math 971o N 2014 Qp

1. Understanding the eBook Max Papers Math 971o N 2014 Qp
 - The Rise of Digital Reading Max Papers Math 971o N 2014 Qp
 - Advantages of eBooks Over Traditional Books
2. Identifying Max Papers Math 971o N 2014 Qp
 - 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 Max Papers Math 971o N 2014 Qp
 - User-Friendly Interface
4. Exploring eBook Recommendations from Max Papers Math 971o N 2014 Qp
 - Personalized Recommendations
 - Max Papers Math 971o N 2014 Qp User Reviews and Ratings
 - Max Papers Math 971o N 2014 Qp and Bestseller Lists

5. Accessing Max Papers Math 971o N 2014 Qp Free and Paid eBooks
 - Max Papers Math 971o N 2014 Qp Public Domain eBooks
 - Max Papers Math 971o N 2014 Qp eBook Subscription Services
 - Max Papers Math 971o N 2014 Qp Budget-Friendly Options
6. Navigating Max Papers Math 971o N 2014 Qp eBook Formats
 - ePub, PDF, MOBI, and More
 - Max Papers Math 971o N 2014 Qp Compatibility with Devices
 - Max Papers Math 971o N 2014 Qp Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Max Papers Math 971o N 2014 Qp
 - Highlighting and Note-Taking Max Papers Math 971o N 2014 Qp
 - Interactive Elements Max Papers Math 971o N 2014 Qp
8. Staying Engaged with Max Papers Math 971o N 2014 Qp
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Max Papers Math 971o N 2014 Qp
9. Balancing eBooks and Physical Books Max Papers Math 971o N 2014 Qp
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Max Papers Math 971o N 2014 Qp
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Max Papers Math 971o N 2014 Qp
 - Setting Reading Goals Max Papers Math 971o N 2014 Qp
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Max Papers Math 971o N 2014 Qp
 - Fact-Checking eBook Content of Max Papers Math 971o N 2014 Qp
 - 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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