

0 Level Math

4024/12

Paper 1

May June 2022

4. Illustration is a sequence of patterns using circles.



Pattern 1 Pattern 2 Pattern 3

Fig. 1 Complete the table

Pattern number	1	2	3	4	5
Number of circles	5	8	13	20	29

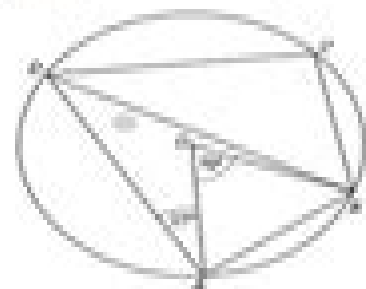
80. Find an expression, in terms of n , for the number of circles in Pattern n .

$$\text{No. of Circles in } n \text{th Pattern } a_n + b_n n$$

$$a_n = 2 + 3n$$

$$2 + 3n$$

81. Answer the following



DO NOT WRITE IN THESE SPACES

A. B. C. D. E. are points on the circle. Lines O A, O B, O C, O D, O E are drawn.

82. The graph of $y = \frac{1}{2}x^2 - 3x + 2$ is shown below.

$$y - 2 = \frac{1}{2}x^2 - 3x$$



83. By drawing a tangent, estimate the gradient of the curve at $x = 4$.

$$\frac{1}{2}x^2 - 3x + 2$$

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Peipei Pang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Table of Contents 14 Math Mark Scheme 4024

1. Understanding the eBook 14 Math Mark Scheme 4024
 - The Rise of Digital Reading 14 Math Mark Scheme 4024
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Math Mark Scheme 4024
 - 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 14 Math Mark Scheme 4024
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Math Mark Scheme 4024
 - Personalized Recommendations
 - 14 Math Mark Scheme 4024 User Reviews and Ratings
 - 14 Math Mark Scheme 4024 and Bestseller Lists
5. Accessing 14 Math Mark Scheme 4024 Free and Paid eBooks
 - 14 Math Mark Scheme 4024 Public Domain eBooks
 - 14 Math Mark Scheme 4024 eBook Subscription Services
 - 14 Math Mark Scheme 4024 Budget-Friendly Options

6. Navigating 14 Math Mark Scheme 4024 eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Math Mark Scheme 4024 Compatibility with Devices
 - 14 Math Mark Scheme 4024 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Math Mark Scheme 4024
 - Highlighting and Note-Taking 14 Math Mark Scheme 4024
 - Interactive Elements 14 Math Mark Scheme 4024
8. Staying Engaged with 14 Math Mark Scheme 4024
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Math Mark Scheme 4024
9. Balancing eBooks and Physical Books 14 Math Mark Scheme 4024
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Math Mark Scheme 4024
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 Math Mark Scheme 4024
 - Setting Reading Goals 14 Math Mark Scheme 4024
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Math Mark Scheme 4024
 - Fact-Checking eBook Content of 14 Math Mark Scheme 4024
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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