

As and A Level

9709/12

Paper 1

October November 2022

Full Solution

Cambridge International AS & A Level
MATHEMATICS
Paper 1: Pure Mathematics 1
October/November 2022
1 hour 45 minutes

Solved

Instructions

- Answer all questions.
- Write in black ink on this paper. You must use an approved writing instrument to write.
- Write your answers in your answer book in the spaces at the end of the page.
- Do not use any calculator that is not permitted.
- Do not write on any other paper.
- If additional space is needed, you should use the back page of the end of this booklet. Use question numbers in brackets, e.g. (Q1), to identify answers.
- You should use a calculator where necessary.
- There may be some unmarked working space. No marks will be given for unmarked answers from a question.
- There are some mathematical symbols printed on 2 separate pages. In 2 marked places for symbols in brackets, indicate in addition to the symbol of addition in the question.

Question 1

The graph with equation $y = f(x)$ is sketched on the graph with equation $y = \frac{1}{2}x^2$ for x between 0 and 4. The function f is defined by $f(x) = \frac{1}{2}x^2 + 1$.

(a) The diagram below shows the graph of $f(x)$.

For the function f , sketch the graph of $f(x + 2)$.

(b) Find an expression for $g(x)$ in terms of x .

$g(x) = f\left(\frac{1}{2}x\right) + 1$

$g(x) = \frac{1}{2}\left(\frac{1}{2}x\right)^2 + 1 + 1$

$g(x) = \frac{1}{8}x^2 + 2$

(c) Sketch the graph of the function $g(x)$ on the grid below.

(d) Find the equation of the line of best fit for the data in the table below.

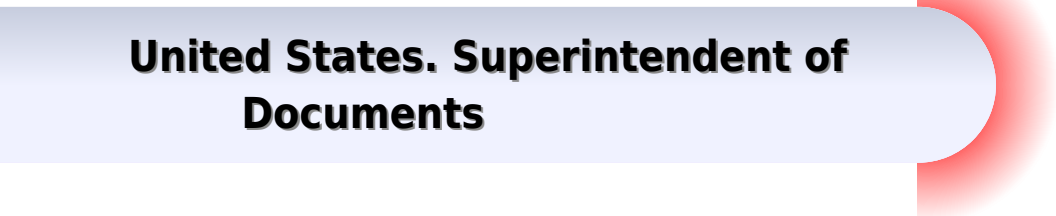
$y = 0.5x + 1.5$

(e) Find the equation of the line of best fit for the data in the table below.

$y = 0.5x + 1.5$

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Table of Contents October 2ict Paper1

1. Understanding the eBook October 2ict Paper1
 - The Rise of Digital Reading October 2ict Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying October 2ict Paper1
 - 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 October 2ict Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from October 2ict Paper1
 - Personalized Recommendations
 - October 2ict Paper1 User Reviews and Ratings
 - October 2ict Paper1 and Bestseller Lists
5. Accessing October 2ict Paper1 Free and Paid eBooks
 - October 2ict Paper1 Public Domain eBooks
 - October 2ict Paper1 eBook Subscription Services
 - October 2ict Paper1 Budget-Friendly Options

6. Navigating October 2ict Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - October 2ict Paper1 Compatibility with Devices
 - October 2ict Paper1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of October 2ict Paper1
 - Highlighting and Note-Taking October 2ict Paper1
 - Interactive Elements October 2ict Paper1
8. Staying Engaged with October 2ict Paper1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers October 2ict Paper1
9. Balancing eBooks and Physical Books October 2ict Paper1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection October 2ict Paper1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine October 2ict Paper1
 - Setting Reading Goals October 2ict Paper1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of October 2ict Paper1
 - Fact-Checking eBook Content of October 2ict Paper1
 - 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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