

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.
- Use a black or dark blue pen. You must use the printing and handwriting grids.
- Write your answers in your answer book in the spaces at the end of the page.
- Do not use any correction fluid or correction tape.
- 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 red ink to indicate which questions you need more space.
- You should use a calculator where necessary.
- There may be some unmarked working spaces. No marks will be given for unmarked answers from a question.
- There are some mathematical symbols printed on 2 separate sheets. In 2 marked places for symbols in red ink, indicate in addition to the marking of symbols 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 has a minimum at $(2, 1)$.

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

On the diagram sketch the graph of $y = \frac{1}{2}x^2$.

(b) Find an expression for $\frac{dy}{dx}$ in terms of x .

$$\frac{dy}{dx} = \frac{d}{dx} \left(\frac{1}{2}x^2 \right) = x$$

$$= x$$

(c) Hence find the equation of the tangent to the curve at $x = 4$.

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

$$\frac{dy}{dx} = x$$

$$\frac{dy}{dx} \bigg|_{x=4} = 4$$

$$y - 8 = 4(x - 4)$$

$$y - 8 = 4x - 16$$

$$y = 4x - 8$$

October 2ict Paper1

Michal Rosen-Zvi



October 2ict Paper1:

Geological Survey Water-supply Paper ,1974 *Monthly Catalogue, United States Public Documents* United States. Superintendent of Documents,1917 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index The Globalization of Martyrdom Assaf Moghadam,2011-04-01 2009 Outstanding Academic Title Choice This groundbreaking volume examines the rise and spread of suicide attacks over the past decade Sorting through 1 270 terror strikes between 1981 and 2007 Assaf Moghadam attributes their recent proliferation to the mutually related ascendance of al Qaeda and its guiding ideology Salafi Jihad an extreme interpretation of Islam that rejects national boundaries and seeks to create a global Muslim community In exploring the roots of the extreme radicalization represented by Salafism Moghadam finds many causes including Western dominance in the Arab world the physical diffusion of Salafi institutions and actors and the element of opportunity created by the Soviet invasion of Afghanistan He uses individual examples from the Middle East Southwest Asia and Europe to show how the elite leaders of al Qaeda and affiliated groups and their foot soldiers interact with one another and how they garner support and a growing number of converts and attackers from the Muslim community Based on over a decade of empirical research and a critical examination of existing thought on suicide attacks Moghadam distinguishes the key characteristics separating globalized suicide strikes from the traditional localized pattern that previously prevailed This unflinching analysis provides new information about the relationship between ideology and suicide attacks and recommends policies focused on containing Salafi Jihadism **The Evaluation and Implementation of a Smart Specialization Strategy** Mirjana Kranjac,Jakob Salom,2022-01-05 This book serves to define and promote the concept of smart specialization As such it is not only theoretical but also presents a practical process performed in a specific country and the results thereof It offers recommendations for activities of the European Commission regarding smart specialization processes in the future and will appeal to policy makers professionals who develop strategic documents advisors bridging organizations and all who are involved in research and innovation from professors to entrepreneurs *The Annalist* ,1926 The Annual Index to The Times ,1912 *The Economist* ,1874 *Sylvester's Bank-note and Exchange Manual* ,1833 **International Coal Trade** ,1973 Monthly inventory of information from United States Government Foreign Service offices and other sources that may not otherwise be made available promptly **Moving to the Cloud Corporation** L. Willcocks,W. Venters,E. Whitley,2013-12-13 Drawing on an international survey of over 1 000 business and executives this book provides a management perspective on cloud technology It outlines the need to know information for strategic decisions on cloud technology including its capabilities how it can be implemented securely and the way forward for the next ten years

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