

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 use.
- You should use a calculator where appropriate. No marks will be given for uncorrected answers from a calculator.
- There are three mathematical symbols printed on 2 significant figures. In 2 decimal places the angles in degrees, minutes or seconds must be accurate to 1 minute in this question.

Question 1

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

(a) Use the drawing below, showing the graph of $y = f(x)$, to find the equation of the graph of $y = \frac{1}{2}f(x)$.

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

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

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

(d) Find the equation of the circle with centre C and radius r such that C is the point $(2, 1)$ and $r = 1$.

The equation of the circle is $(x - 2)^2 + (y - 1)^2 = 1$.

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