

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 appropriate. No marks will be given for uncorrected answers from a calculator.
- Some questions involve graphical work. You may use a graphics display calculator, but a detailed plan for angles in degrees, minutes or seconds must be shown in red ink.

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) Use the drawing below, showing the graph of $y = f(x)$, to find the equation of the graph of $y = f(x) + 1$.

2 Find an expression for $\sin \theta$ in terms of $\cos \theta$.

3 Solve the equation $\sin \theta = \frac{1}{2}$ for $0 \leq \theta < 2\pi$.

4 Solve the equation $\cos \theta = \frac{1}{2}$ for $0 \leq \theta < 2\pi$.

5 Solve the equation $\tan \theta = \frac{1}{2}$ for $0 \leq \theta < 2\pi$.

6 Solve the equation $\sec \theta = 2$ for $0 \leq \theta < 2\pi$.

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