

O LEVEL MATHS

4024/21

Paper 2

October November 2022

Full Solution

Cambridge O Level

Candidate
name

Candidate
number

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number

MATHEMATICS (SYLLABUS 4024)

4024/21

Paper 2

October/November 2022

2 hours 30 minutes

You must answer on the question paper.

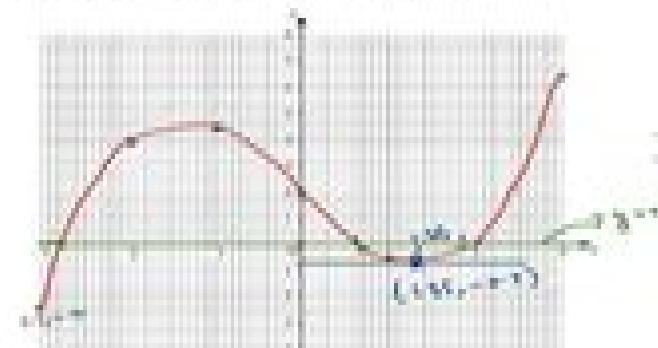
You will need: Geometrical instruments

Solved

Useful Notes

- Answer all questions.
- Use a ruler in both directions. You may use an ink pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.

1. The first part shows the graph of $y = \frac{1}{2}x^2 - 3x + 4$ for x from 0 to 10.



(a) Show clearly the coordinates of the minimum point of your graph for $y = \frac{1}{2}x^2 - 3x + 4$.

(b) Use your graph to solve the equation $\frac{1}{2}x^2 - 3x + 4 = 0$.

2. A is a point on a horizontal ground.

The angle of elevation of the top of a vertical mast from A is 45° . The distance of the base of the mast from A is 10 m.

Find the height of the mast.



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VM Jensen



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