

IGCSE MATHS

0580/41

Paper 4

October November 2022

Full Solution

Cambridge IGCSE™

0580/41

1 hour 45 minutes

1 hour 45 minutes

Solved

The first steps of the question are:

1. Read all questions.
2. Tick a box to show that you have read each question in the paper.
3. Write your name, centre number and candidate number in the boxes at the top of the page.
4. Write your answer to each question in the space provided.

4. (a) (i) The diagram shows a curve on a grid. The horizontal axis is labeled x and the vertical axis is labeled y . The curve passes through the points $(2, 1)$, $(4, 2)$, $(6, 3)$, $(8, 4)$, $(10, 5)$, $(12, 6)$, $(14, 7)$, $(16, 8)$, $(18, 9)$, $(20, 10)$.

(ii) The diagram shows a triangle ABC with vertices $A(1, 1)$, $B(3, 3)$, and $C(5, 5)$. The side AC is extended to a point D such that $CD = AC$. The line BD is drawn. The angle ABD is marked as θ .

Find θ .

(b) The diagram shows a cone with a circular base of radius r and a slant height of 10 . The angle between the slant height and the radius is 60° .

Find the area of the base of the cone.

(c) The diagram shows a right-angled triangle ABC with the right angle at C . The side $AC = 12$ and the side $BC = 5$. The angle ABC is marked as θ .

Find θ .

(d) The diagram shows a right-angled triangle ABC with the right angle at C . The side $AC = 12$ and the side $BC = 5$. The angle ABC is marked as θ .

Find θ .

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