

Please check the examination details below before entering your candidate information

Candidate surname	Other names
Centre Number	Candidate Number
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Pearson Edexcel International GCSE

Monday 10 June 2024

Morning (Time: 2 hours 30 minutes)	Paper reference	4MB1/02
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Mathematics B

PAPER 2

<p><b>You must have:</b> Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.</p>	Total Marks
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**Instructions**

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

**Information**

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

**Advice**

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.
- Without sufficient working, correct answers may be awarded no marks.

Turn over ►

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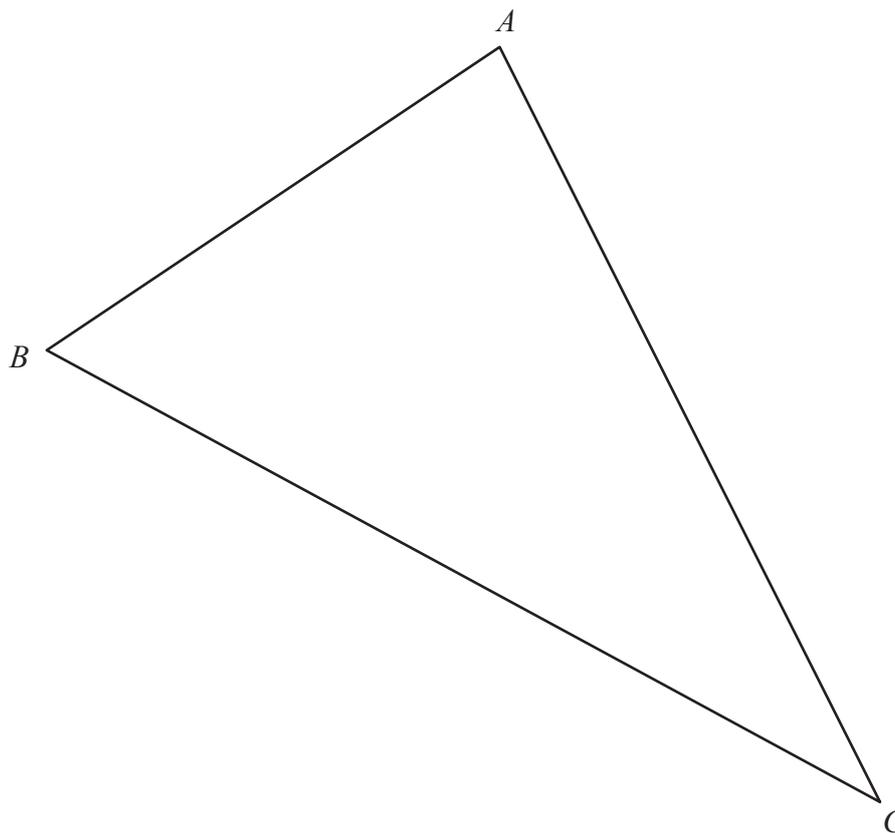
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2



The diagram shows triangle  $ABC$

Using ruler and compasses only and **showing all your construction lines**, construct

- (a) the locus of the points that are 3 cm from  $B$  (1)
- (b) the perpendicular bisector of  $AC$  (2)
- (c) the bisector of  $\angle ACB$  (2)

The region  $R$  consists of all the points inside the triangle that are closer to  $A$  than to  $C$ , closer to  $BC$  than to  $AC$  and more than 3 cm from  $B$

- (d) Show, by shading, the region  $R$   
Label the region  $R$  (1)

**(Total for Question 2 is 6 marks)**







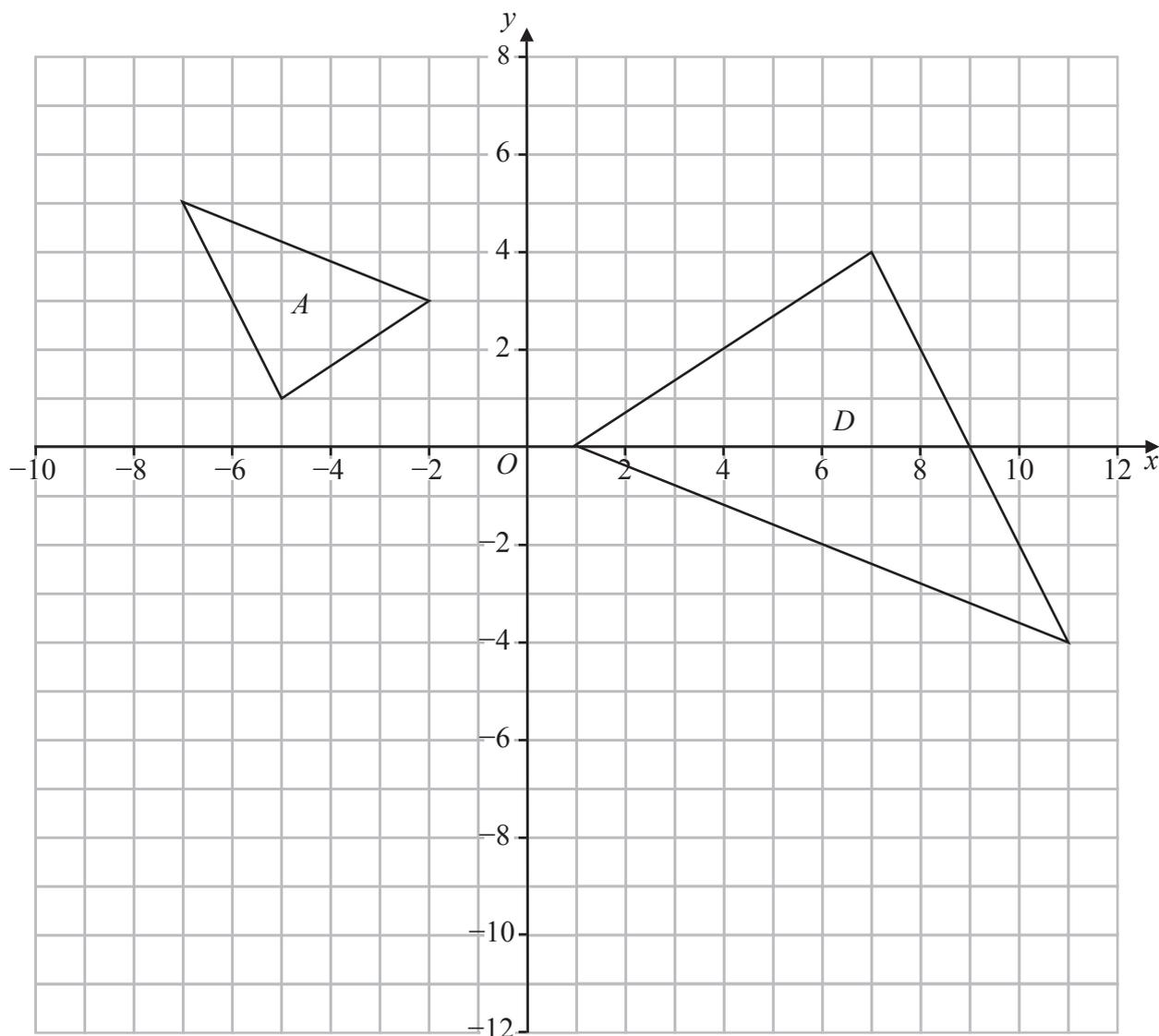


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**Question 4 continued**



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**Turn over for a spare grid if you need to redraw your triangles.**



**Question 4 continued**

Handwriting practice area consisting of 25 horizontal dotted lines for writing.

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DO NOT WRITE IN THIS AREA

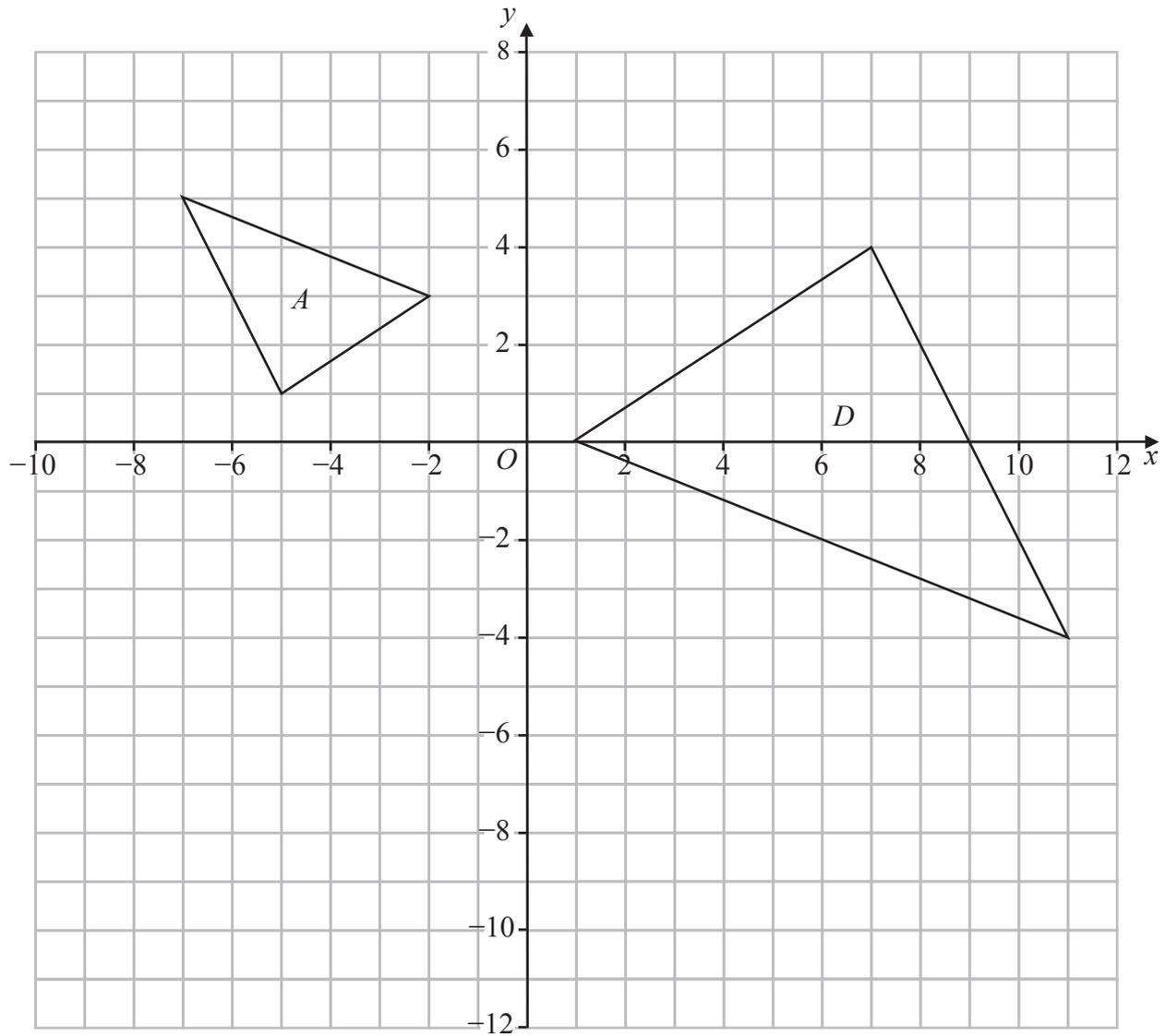
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**Question 4 continued**

**Only use this grid if you need to redraw your triangles.**



**(Total for Question 4 is 13 marks)**





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**Question 5 continued**

Area with horizontal dotted lines for writing answers.

**(Total for Question 5 is 5 marks)**





**Question 6 continued**

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Area with horizontal dotted lines for writing.



**Question 6 continued**

Handwriting practice area consisting of 25 horizontal dotted lines.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

**Question 6 continued**

Area with horizontal dotted lines for writing answers.

**(Total for Question 6 is 10 marks)**





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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

### Question 7 continued

Handwriting practice area with 20 horizontal dotted lines.



**Question 7 continued**

Handwriting practice area consisting of 25 horizontal dotted lines.

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DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

**Question 7 continued**

Area for writing answers, consisting of multiple horizontal dotted lines.

**(Total for Question 7 is 8 marks)**





**Question 8 continued**

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Area with horizontal dotted lines for writing.



**Question 8 continued**

Handwriting practice area consisting of 20 horizontal dotted lines.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

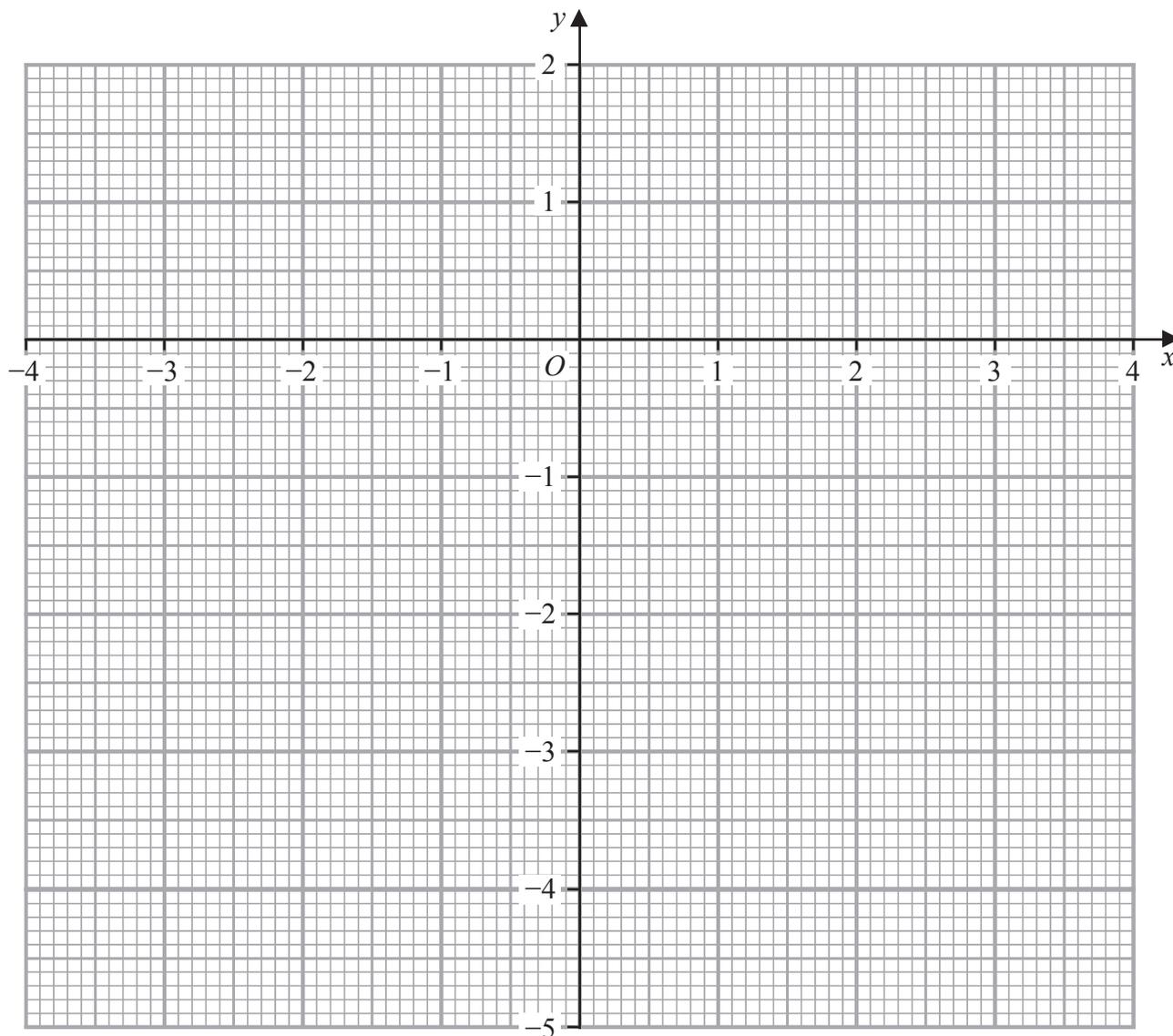
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**Question 9 continued**



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**Turn over for a spare grid if you need to redraw your graph.**



**Question 9 continued**

Handwriting practice area consisting of 25 horizontal dotted lines.

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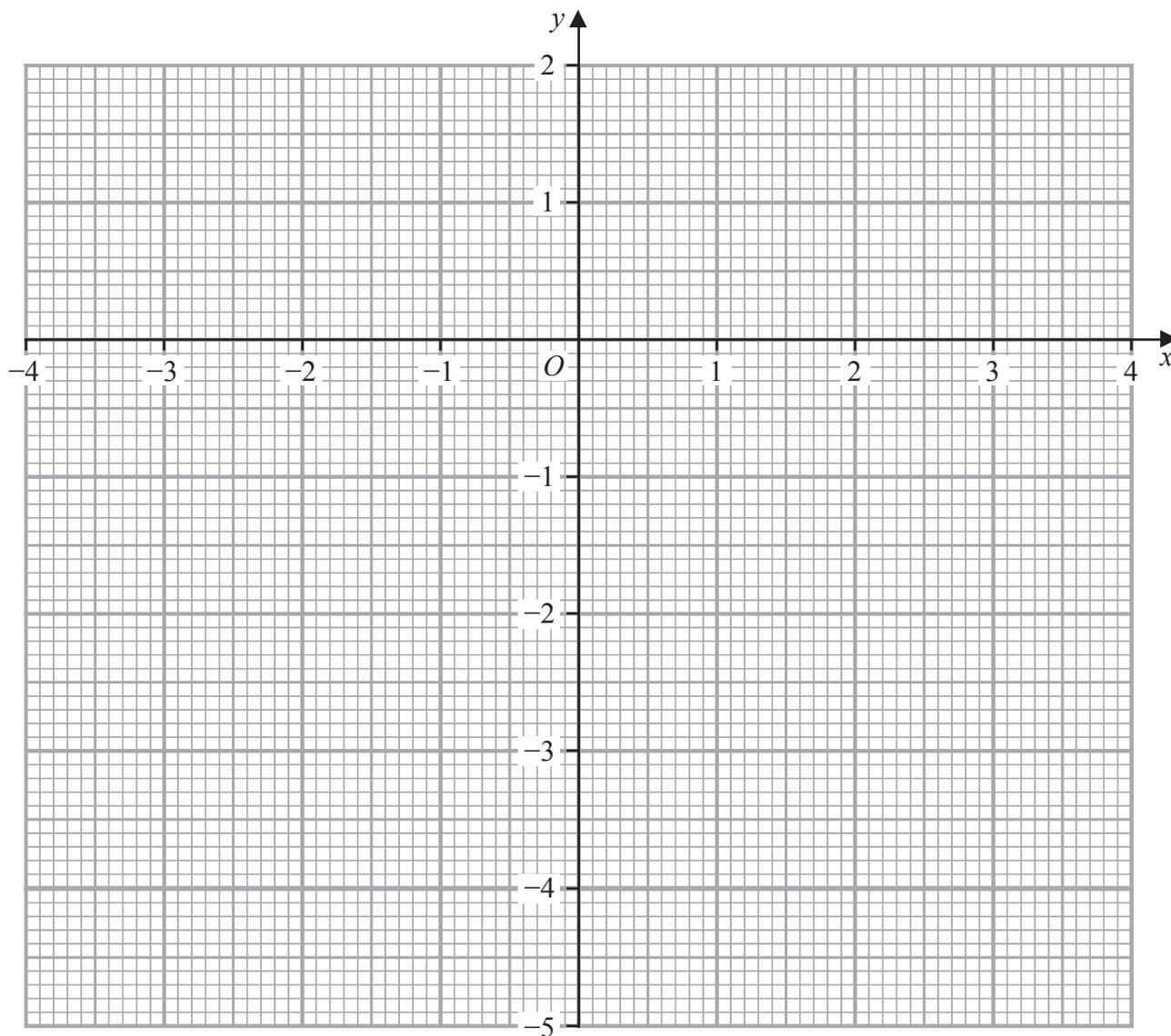
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**Question 9 continued**

**Only use this grid if you need to redraw your graph.**



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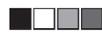
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**(Total for Question 9 is 10 marks)**









**Question 11 continued**

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Area with horizontal dotted lines for writing.



