

Write your name here

Surname	Other names
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Pearson Edexcel Centre Number Candidate Number

International GCSE

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Further Pure Mathematics

Paper 1

Monday 20 January 2014 – Morning Time: 2 hours	Paper Reference 4PM0/01
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Calculators may be used.	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.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

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.

Turn over ►

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2

$$f(x) = 2x^2 - 8x + 5$$

Given that $f(x)$ can be written in the form $a(x - b)^2 + c$

(a) find the value of a , the value of b and the value of c .

(3)

(b) Write down

(i) the minimum value of $f(x)$,

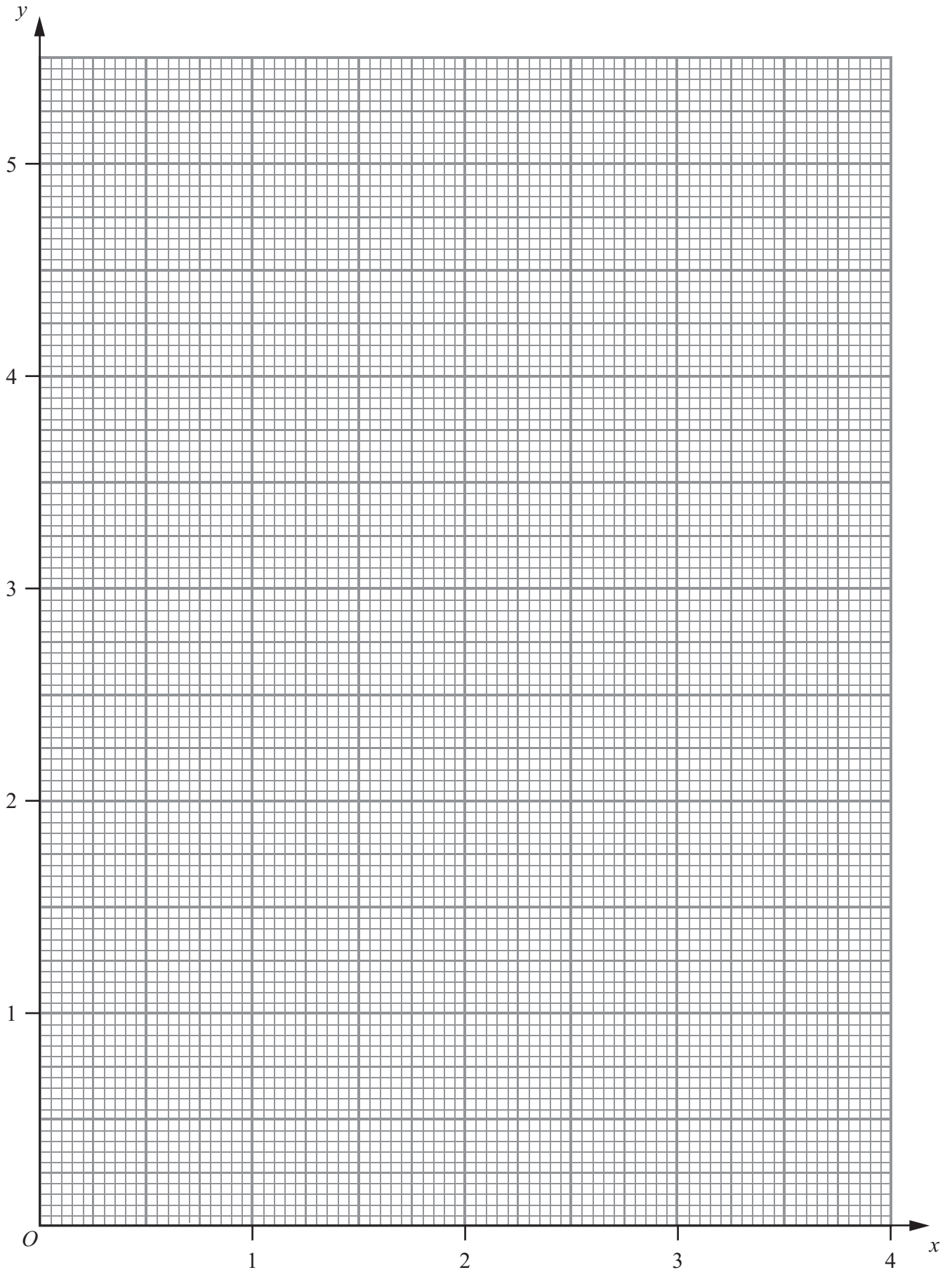
(ii) the value of x at which this minimum occurs.

(2)

(Total for Question 2 is 5 marks)



Question 7 continued

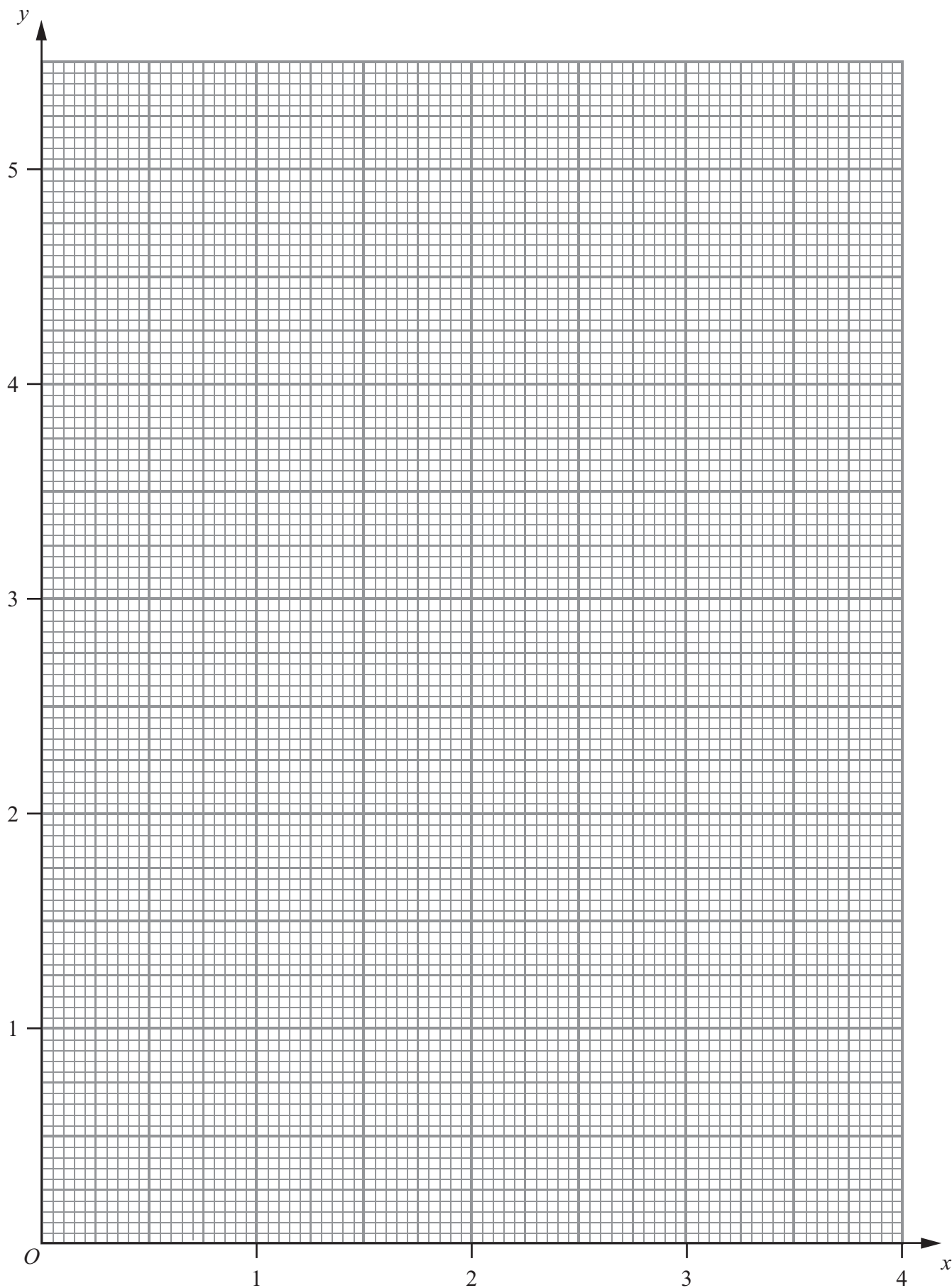


Use the grid on page 15 if you need to redraw your graph.



Question 7 continued

Use this page if you need to redraw your graph.



(Total for Question 7 is 10 marks)



Question 9 continued

A large rectangular area containing 25 horizontal dotted lines for writing the answer to Question 9.

Question 10 continued

A large rectangular area with rounded corners, containing 25 horizontal dotted lines for writing.



Question 11 continued

A large rectangular area with rounded corners, containing 25 horizontal dotted lines for writing answers.



