

Write your name here	
Surname	Other names
Pearson Edexcel	Centre Number
International GCSE	Candidate Number
<h1 style="margin: 0;">Further Pure Mathematics</h1> <h2 style="margin: 0;">Paper 1</h2>	
Monday 8 June 2015 – Morning	Paper Reference
Time: 2 hours	4PM0/01
Calculators may be used.	Total Marks

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.

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Turn over ►

PEARSON

2 Given that $y = 4x^2e^{2x}$

(a) find $\frac{dy}{dx}$ (3)

(b) hence show that $x\frac{dy}{dx} = 2y(1+x)$ (2)

Handwritten solution area with horizontal dotted lines.



Question 5 continued

Handwriting practice area consisting of 25 horizontal dotted lines.



Question 5 continued

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



Question 6 continued

Handwriting practice area consisting of 25 horizontal dotted lines.



Question 6 continued

A series of horizontal dotted lines for writing.



Question 7 continued

Handwriting practice area consisting of 25 horizontal dotted lines.



Question 7 continued

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

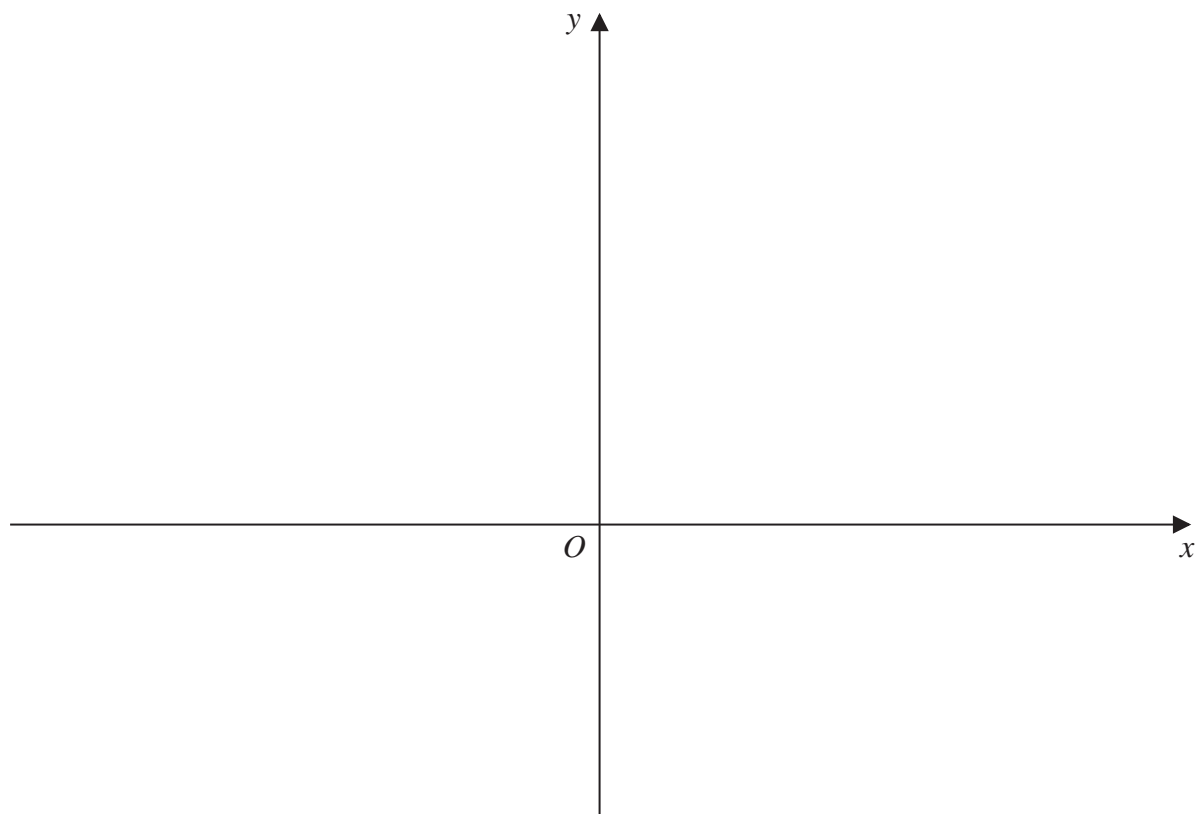


Question 8 continued

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



Question 9 continued



Handwriting practice area consisting of 15 horizontal dotted lines.



Question 9 continued

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



Question 10 continued

Handwriting practice area consisting of 25 horizontal dotted lines.



P 4 4 4 0 6 A 0 3 1 3 2

Question 10 continued

Handwriting practice area consisting of 25 horizontal dotted lines.

(Total for Question 10 is 11 marks)

TOTAL FOR PAPER IS 100 MARKS

