

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER		CANDIDATE NUMBER
* 9 2	MATHEMATICS		0580/03, 0581/03
6	Paper 3 (Core)		October/November 2008
9			2 hours
15310*	Candidates answ	er on the Question Paper.	
	Additional Materials: Electronic calculator Mathematical tables (optional)		Geometrical instruments Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 104.

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This document consists of 11 printed pages and 1 blank page.



2





3 The table below shows the average daily sunshine, s, and the total monthly rainfall, r, for a city during one year.

4

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	(c)	Her brother leaves home at 1115. He travels to the shopping centre by car at an average speed of 54 km/h .						
		(i)	Work out how long, in minutes, he takes to travel to the shopping centre.		0.50			
			Answer(c)(i) minutes	[1]				
		(ii)	Show his journey on the grid.	[1]				
	(d)	Am The	ata and her brother leave the shopping centre at 1200. ravel home by car and arrive at 1245.					
		(i)	i) Show their journey home on the grid. [1]					
		(ii)) Calculate the average speed of their journey home.					
			Answer(d)(ii) km/h	[2]				
6	(9)		2y = 75 - 7r					
U	(<i>a</i>)	(i)	Zy = 75 - 7x					
		(1)	Find y when $x = 7$.					
			Answer(a)(i) y =	[2]				
		(ii)	Find x when $y = 6$.					
			Answer(a)(ii) x =	[2]				
	(b)	(b) Make x the subject of the equation $2y = 75 - 7x$.						
			Answer(b) x =	[2]				
	(c)	Sol	ve these simultaneous equations. 4x - y = 45					
			7x + 2y = 75					
			Answer(c) x =					
			<i>y</i> =	[3]				

7 (a) Complete the table of values for the equation $y = x^2 + x - 3$.

x	-4	-3	-2	-1	0	1	2	3
у	9		-1	-3		-1		9





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[3]







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