

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CAND	
8 6 8	MATHEMATICS		0580/23
3 6 6 /	Paper 2 (Extende	d)	May/June 2010 1 hour 30 minutes
_	Candidates answ		
2 1 5 *	Additional Materi	als: Electronic calculator Geometrical ir Mathematical tables (optional) Tracing paper	

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 pencil for any diagrams or graphs.Do not use staples, paper clips, highlighters, glue or correction fluid.DO NOT WRITE IN ANY BARCODES.

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.

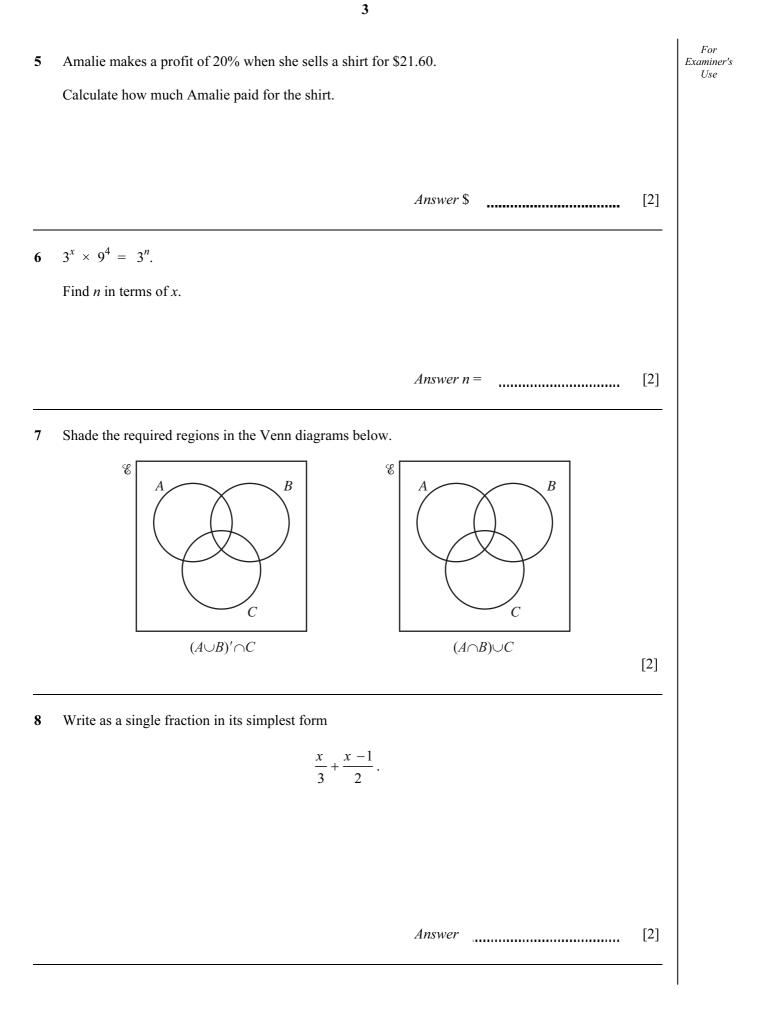
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 70.

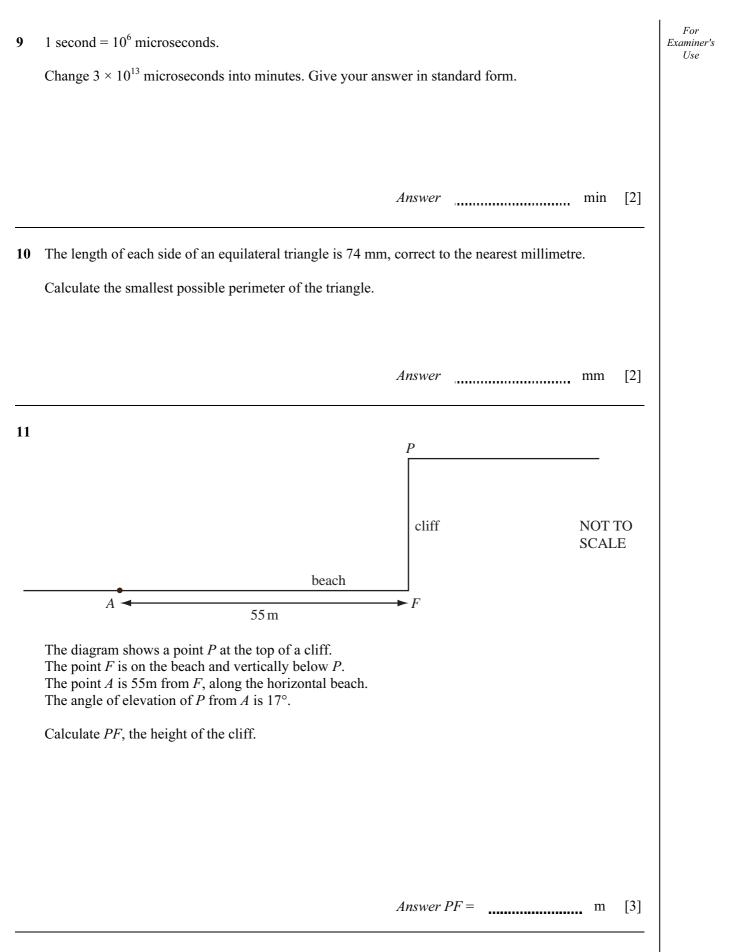
This document consists of 12 printed pages.

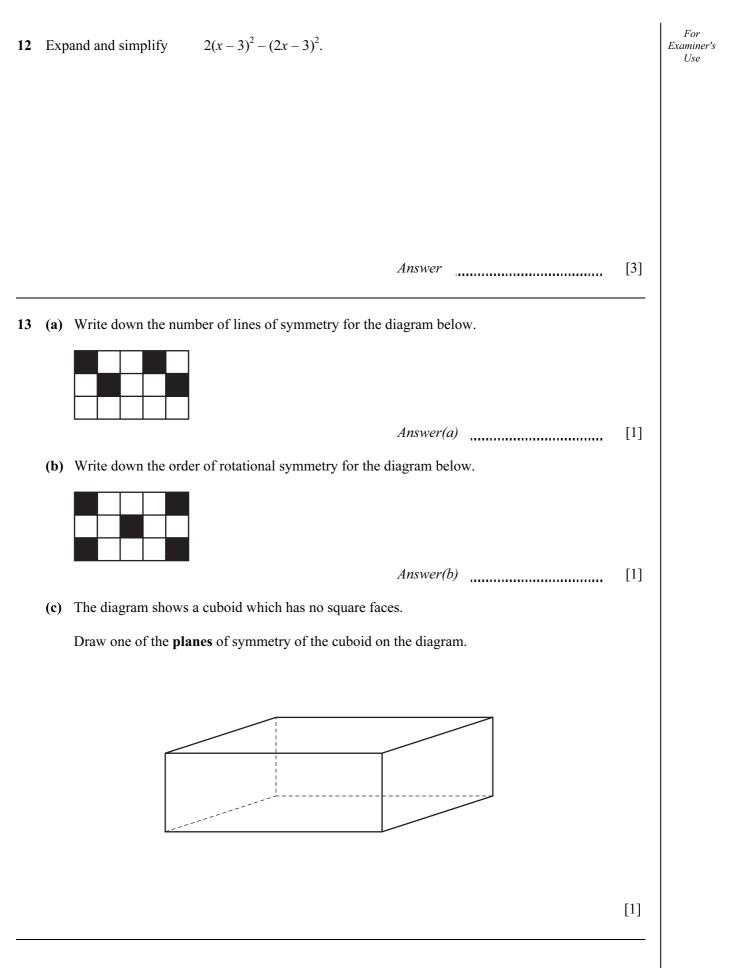


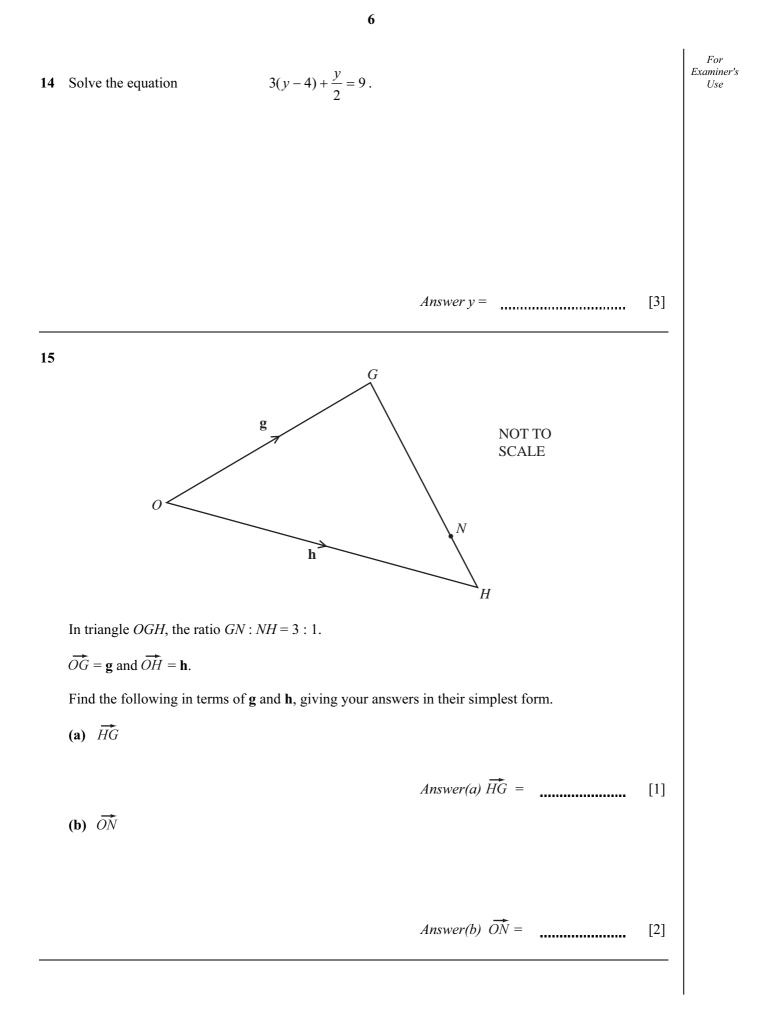
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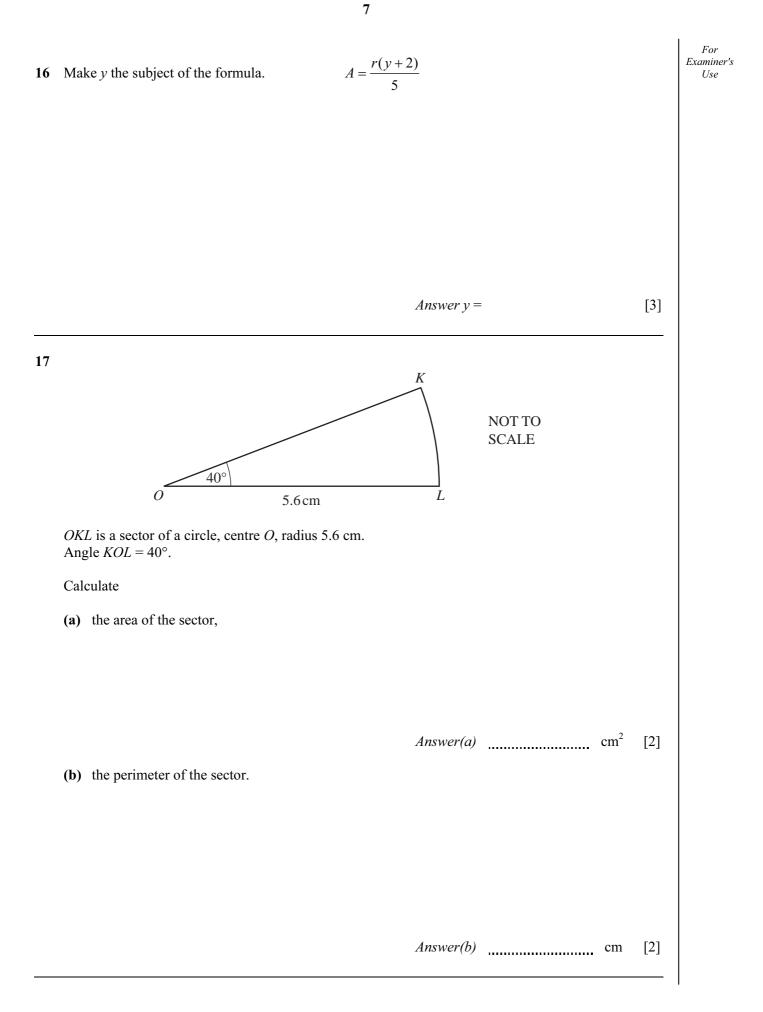
			During one week in April, in Quebec, the daily minimum temperatures were								
	−5°C,	−1°C,	3°C,	2°C,	−2°C,	0°C,	6°C.				
W	rite down										
(a)) the lowest	of these temp	eratures,								
					Answer(a)		°C	[1]			
(b)) the range of	of these tempe	ratures.								
					Answer(b)		°C	[1]			
		$\sqrt{23}$	48%	4.80	$\frac{53}{11}$						
W	rite the numb	ers in order of	f size with the	largest first	11						
•••	file the numb		i size with the	laigest mist.							
			Answer	>	>	>		[2]			
			Answer _	>	>	>		[2]			
			ounds (£) when	n the exchang	e rate was \$1	=£0.60.		[2]			
Не	e later change	d all the poun	ounds (£) when ds back into d	n the exchang	e rate was \$1			[2]			
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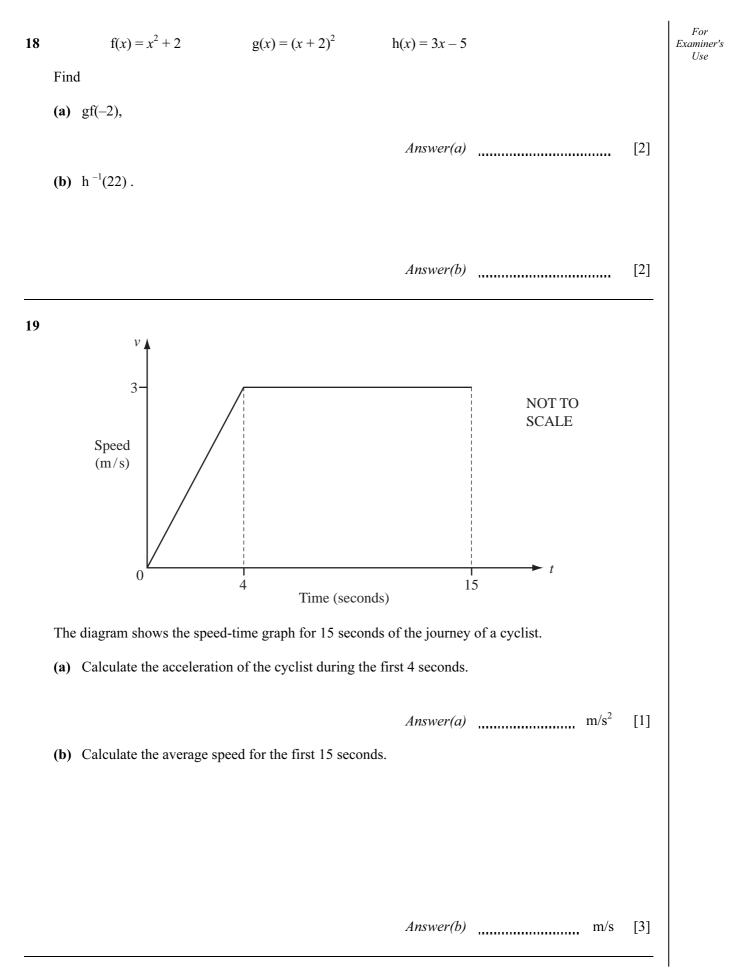




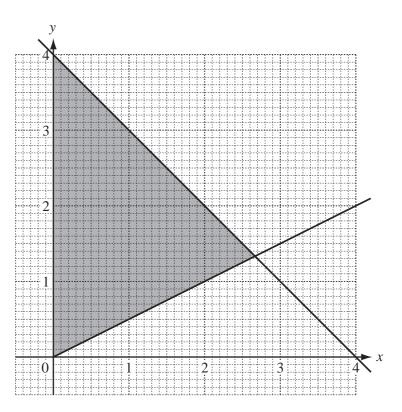








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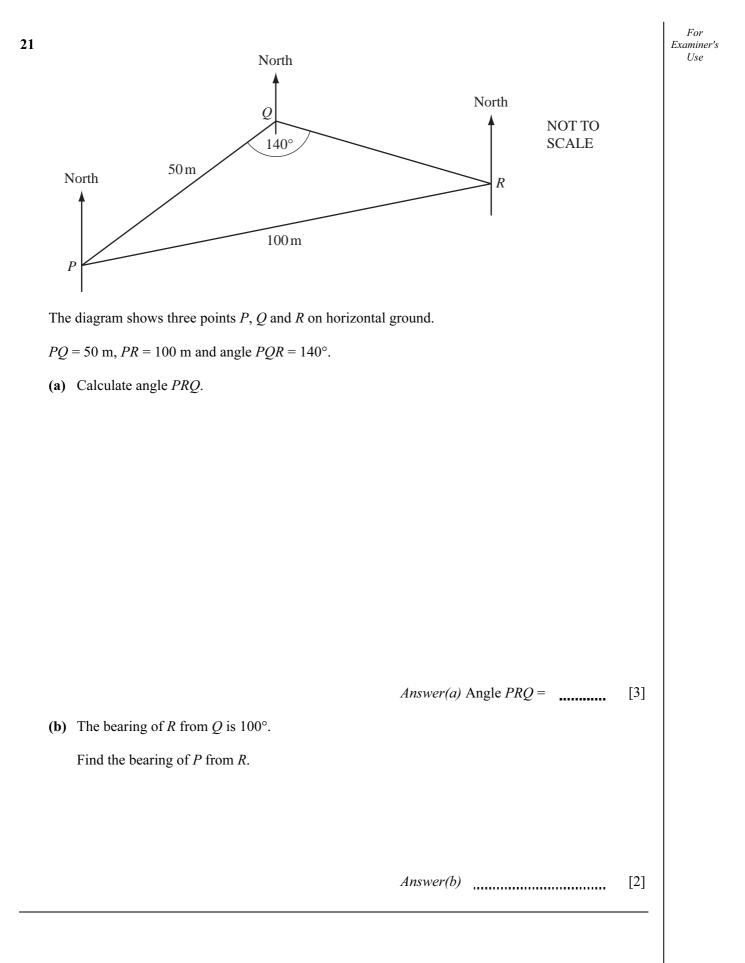


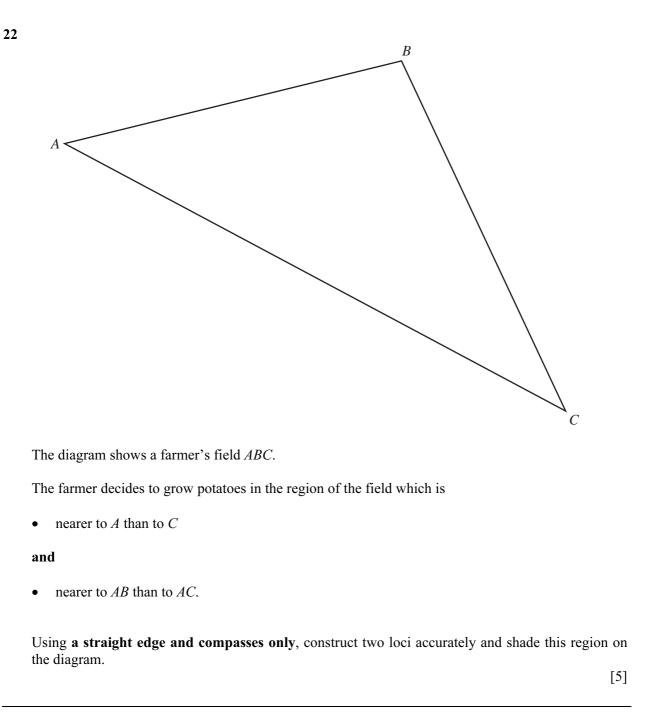
9

Find the three inequalities which define the shaded region on the grid.

Answer _____ [5]

[Turn over www.theallpapers.com





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Question 23 is printed on the next page.

23	$\mathbf{A} = \begin{pmatrix} 1 & 4 \end{pmatrix}$	$\mathbf{B} = \begin{pmatrix} 3 & -1 \\ -2 & 2 \end{pmatrix}$		For Examiner Use	\$
	Find				
	(a) AB,				
	(b) the inverse matrix \mathbf{B}^{-1} ,		Answer(a) AB =	[2]	
	(c) BB ⁻¹ .		Answer(b) $\mathbf{B}^{-1} =$	[2]	
			Answer(c) $\mathbf{BB}^{-1} =$	[1]	

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