Candidate Name



## CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

## MATHEMATICS

PAPER 2

# 0580/2, 0581/2

## **OCTOBER/NOVEMBER SESSION 2002**

1 hour 30 minutes

Candidates answer on the question paper. Additional materials: Electronic calculator Geometrical instruments Mathematical tables (optional) Tracing paper (optional)

TIME 1 hour 30 minutes

## INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided on the question paper.

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

#### **INFORMATION FOR CANDIDATES**

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.

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.

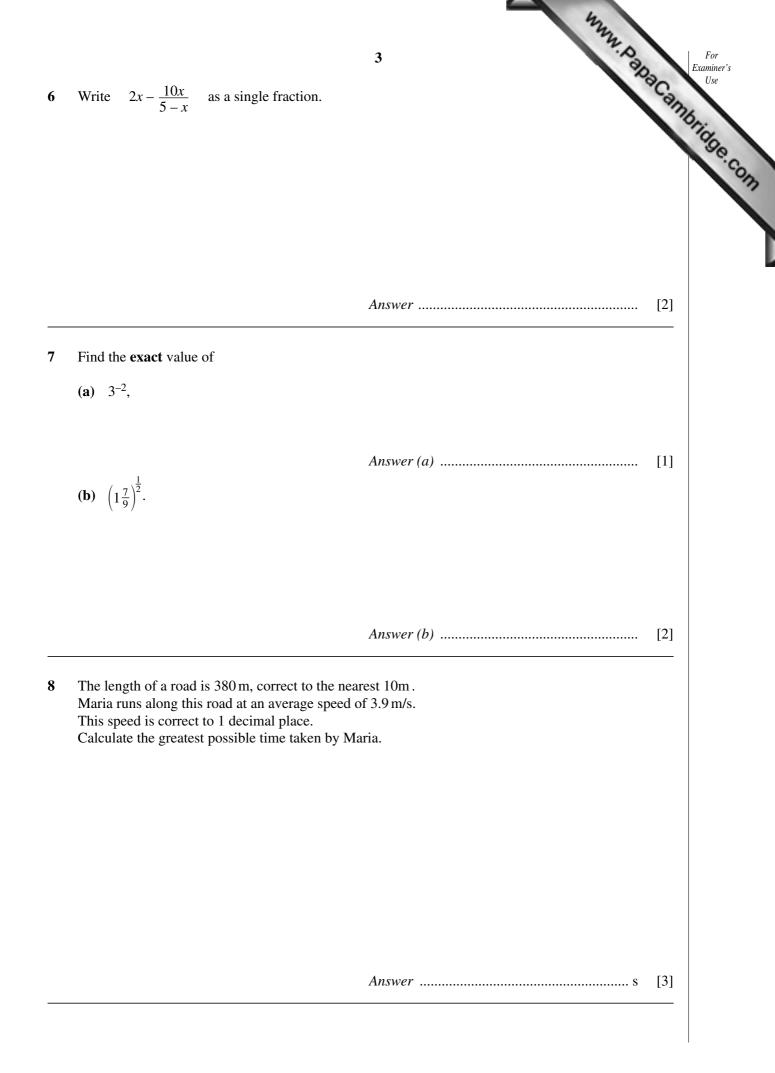
For  $\pi$ , use either your calculator value or 3.142.

FOR EXAMINER'S USE

			2			WW.D.			
Z   The table shows the maximum daily temperatures during one week in Punta Arenas.   Monday Tuesday Wednesday Thursday Friday Saturday Sunday   2°C 3°C 1°C 2.5°C -1.5°C 1°C 2°C									
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
2°C	3°C	1°C	2.5°C	-1.5°C	1°C	2°C			
(a) By how	(a) By how many degrees did the maximum temperature change between Thursday and Friday?								
							[1]		
( <b>b</b> ) What is	s the difference	e between the §	greatest and th	e least of thes	se temperatures	?			
			Answ	er (b)			[1]		
Nyali paid \$62 for a bicycle. She sold it later for \$46.									
What was he	er percentage l	oss?							
			Answ	er		%	[2]		
Three sets A, B and K are such that $A \subset K$ , $B \subset K$ and $A \cap B = \emptyset$ . Draw a Venn diagram to show this information.									
							[2]		
	bes to Europe	•							
		euros at an ex e in euros? Giv			75 pesos. decimal places.				
			Answ	ver		euros	[2]		
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	$\frac{1}{100}, \frac{11}{1000},$	der, smallest fi 0.11%, 0.0	rst. 0108.						
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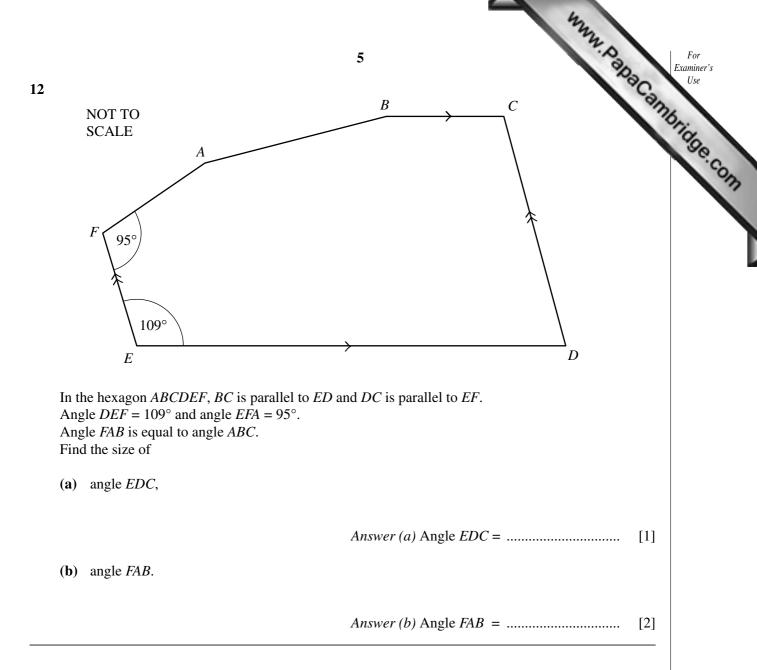


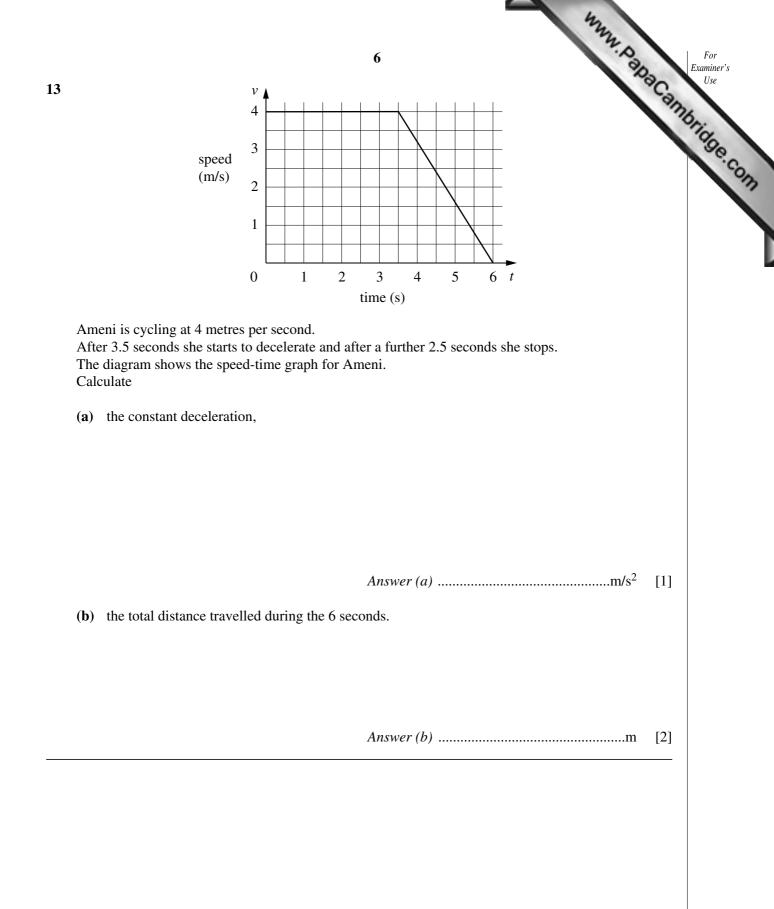
		4	Exa	For aminer's
9	(a)	Draw a quadrilateral which has rotational symmetry of order 2 and whose diagonals are length.	DapaCambrid	Use
	(b)	Write down the special name of this quadrilateral.	[2]	
		Answer (b)	[1]	
10	For	the numbers 8, 3, 5, 8, 7, 8 find		
	<b>(a)</b>	the mode,		
	(b)	Answer (a)	[1]	
	(c)	Answer (b)	[1]	
		Answer (c)	[1]	

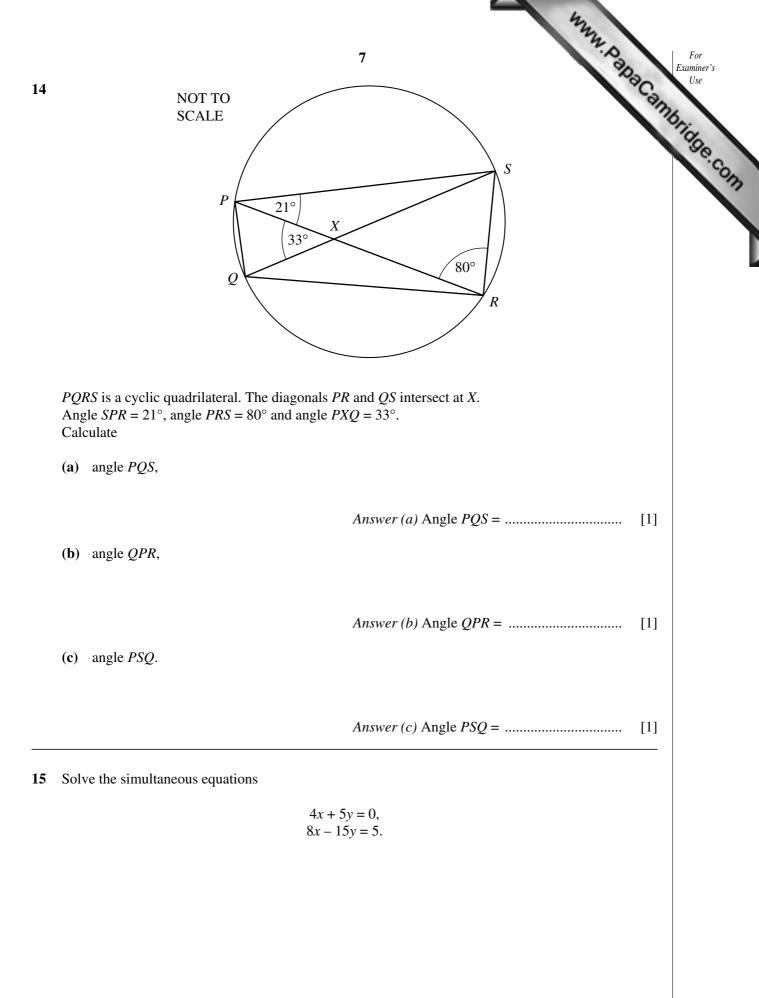
11 The radius of the Earth at the equator is approximately  $6.4 \times 10^6$  metres. Calculate the circumference of the Earth at the equator. Give your answer in standard form, correct to 2 significant figures.

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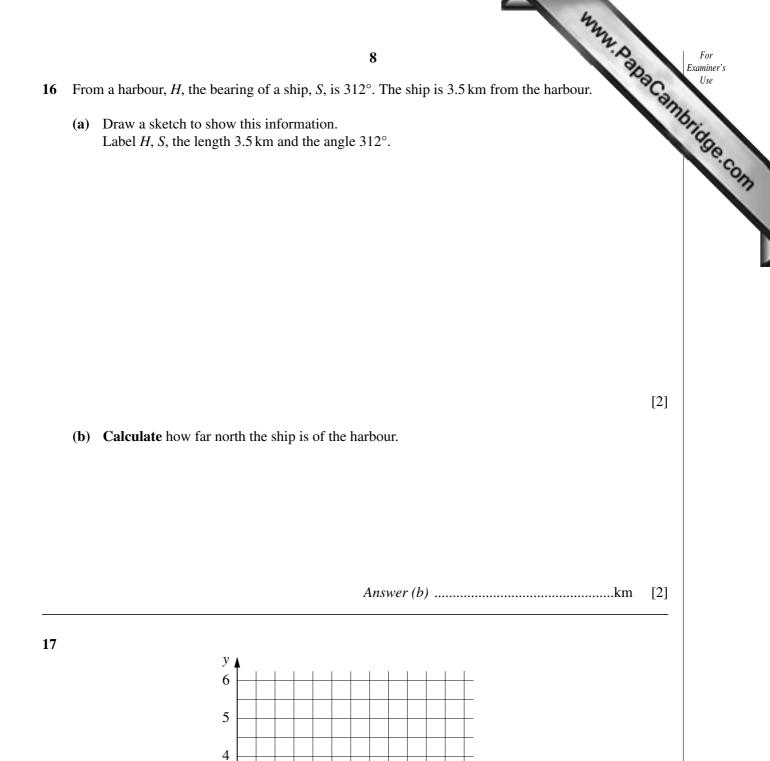
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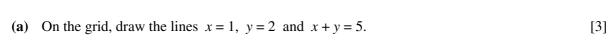






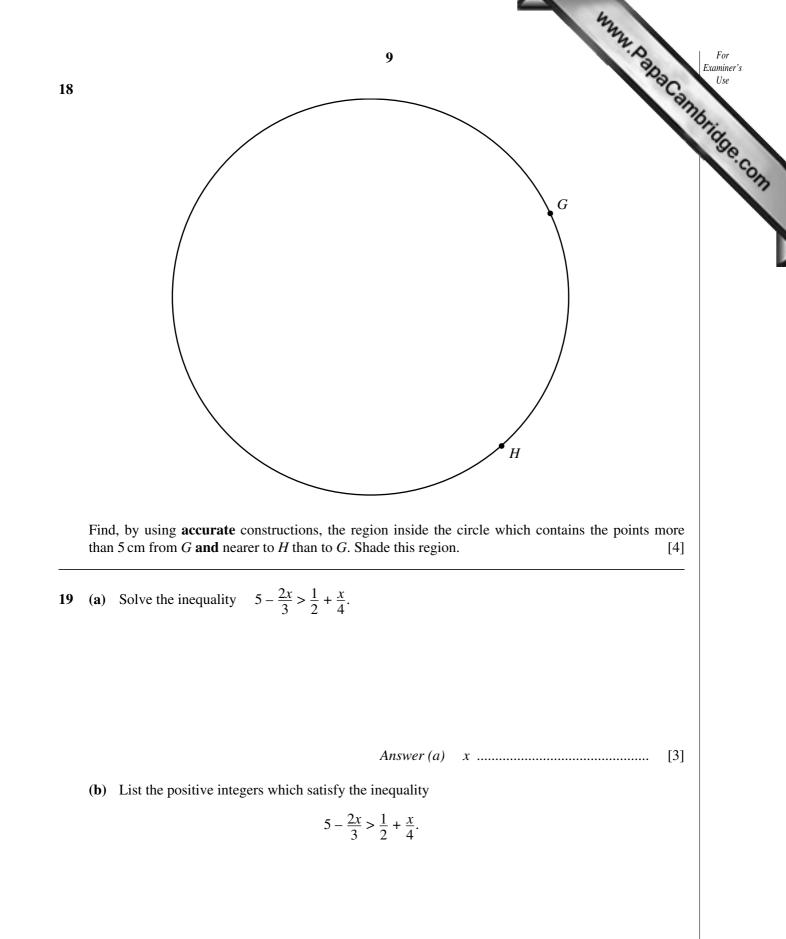
*Answer x* = .....



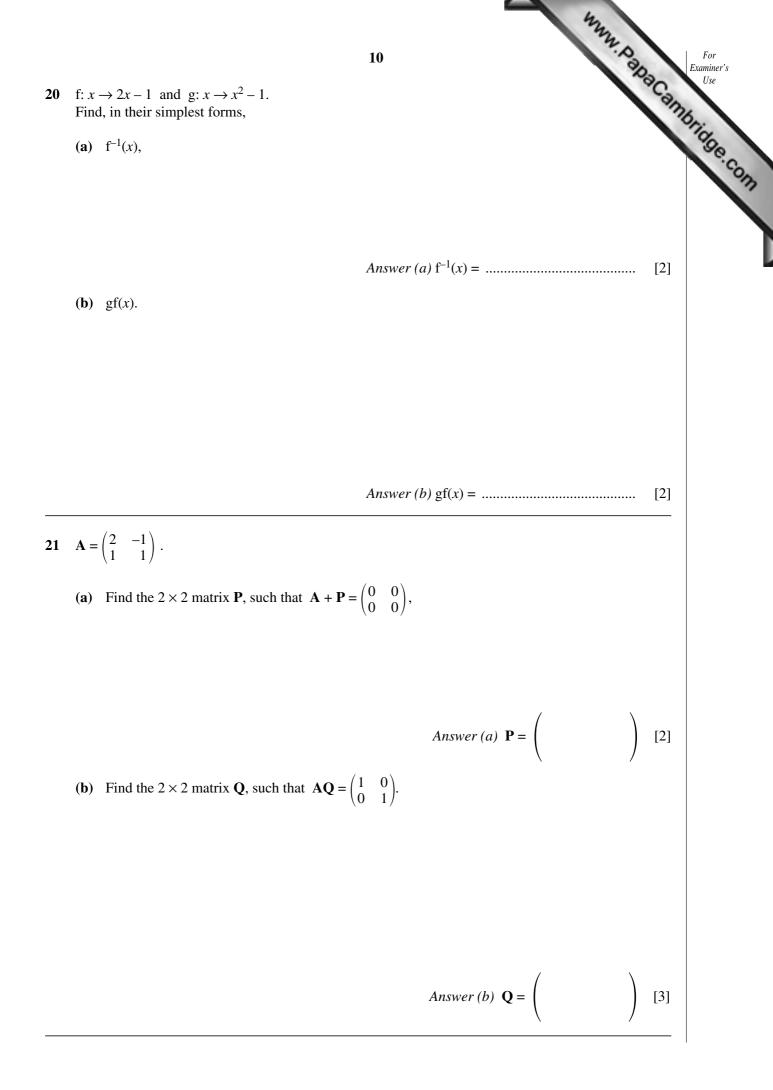


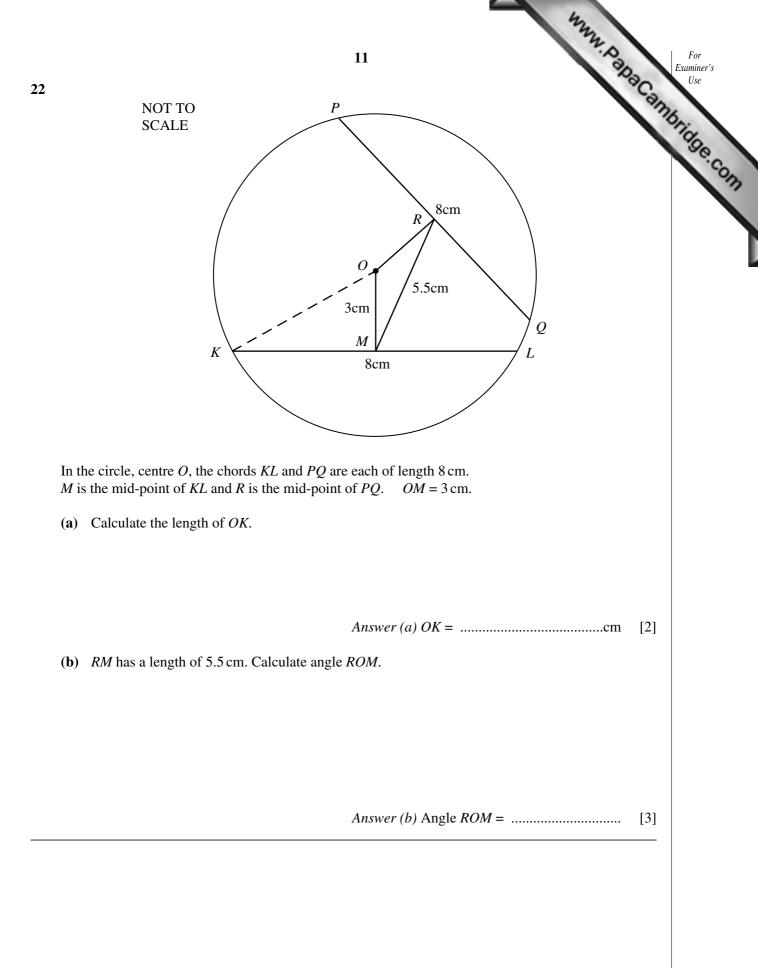
*x* 

[1]



*Answer* (*b*) ......[1]







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