CANDIDATE	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education	www.papaCambre
CENTRE NUMBER	CANDIDATE NUMBER	
MATHEMATIC	6	0580/22
Paper 2 (Extended)		May/June 2012
	1	hour 30 minutes
Candidates ans	wer on the Question Paper.	
Additional Mate	rials: Electronic calculator Geometrical instruments Mathematical tables (optional) 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 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.

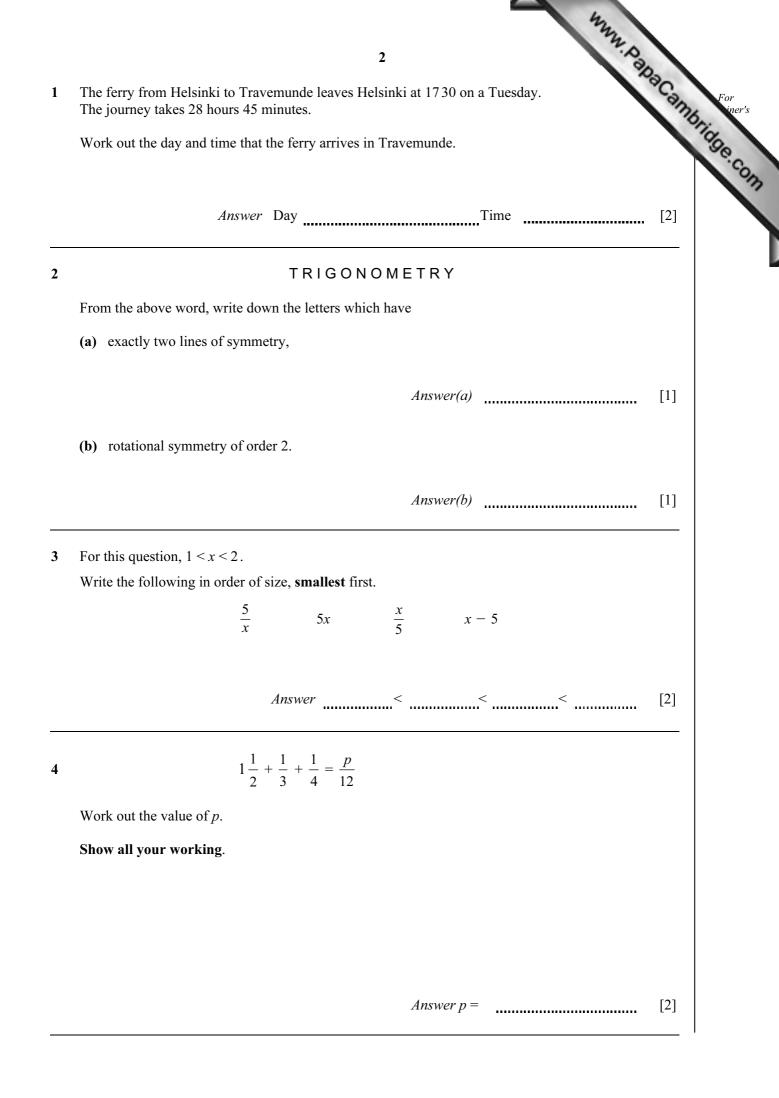
Electronic calculators should be used.

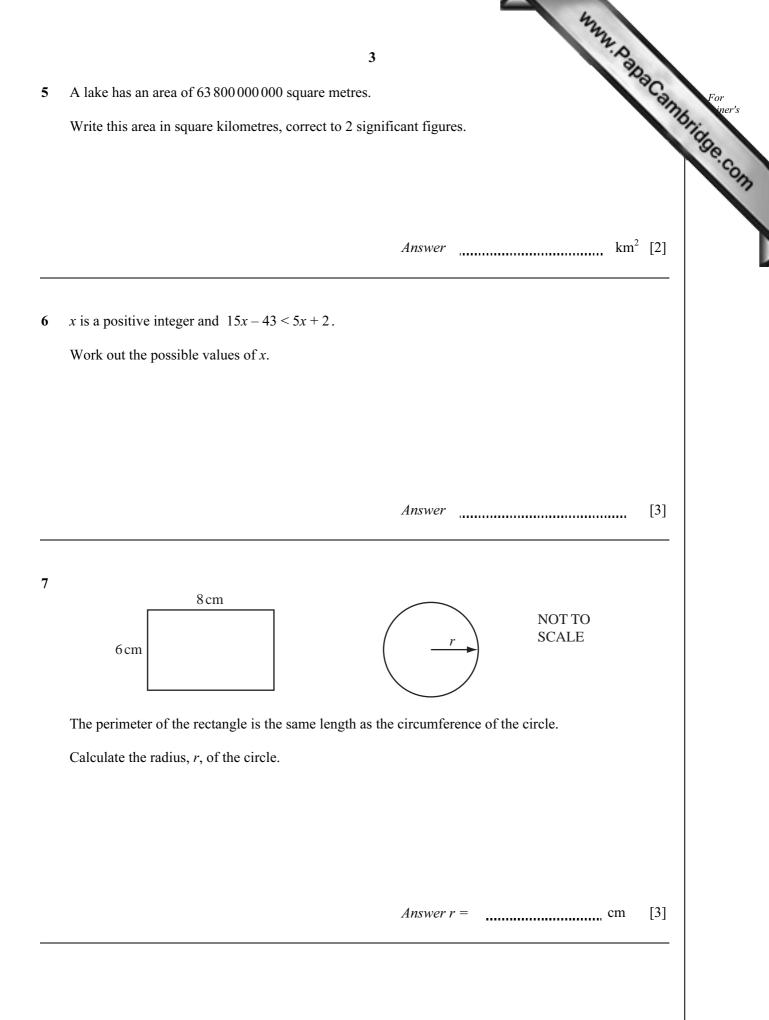
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

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.





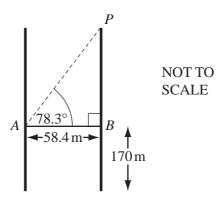


8 A car company sells a scale model $\frac{1}{10}$ of the size of one of its cars.

Complete the following table.

	Scale Model	Real Car
Area of windscreen (cm ²)	135	
Volume of storage space (cm ³)		408 000

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The line *AB* represents the glass walkway between the Petronas Towers in Kuala Lumpur. The walkway is 58.4 metres long and is 170 metres above the ground. The angle of elevation of the point *P* from *A* is 78.3°.

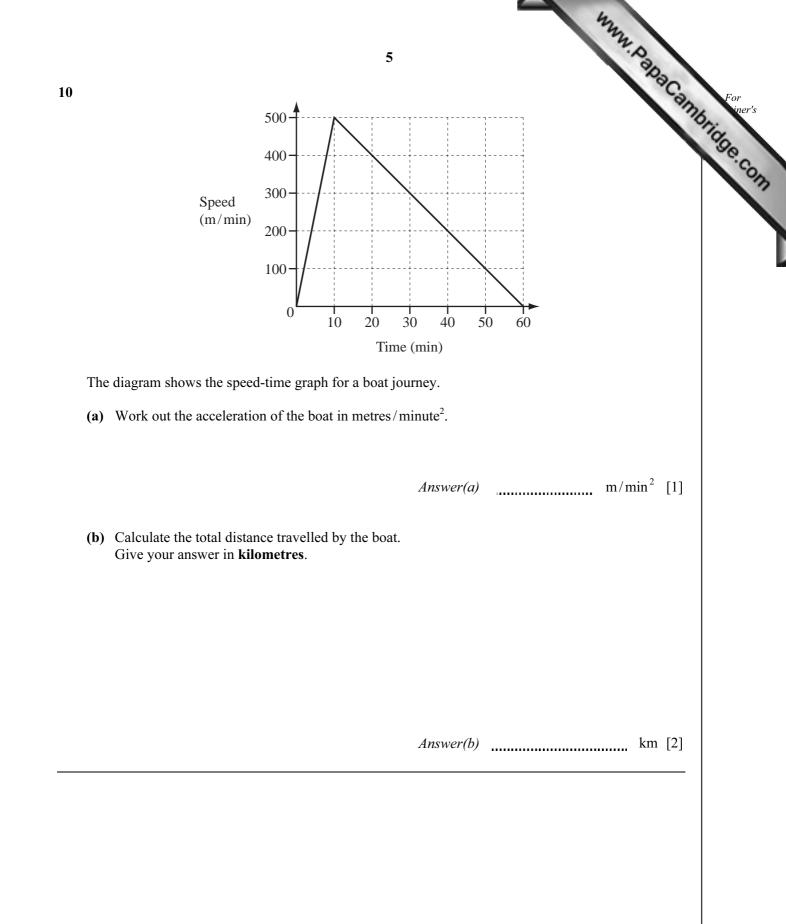
Calculate the height of *P* above the ground.

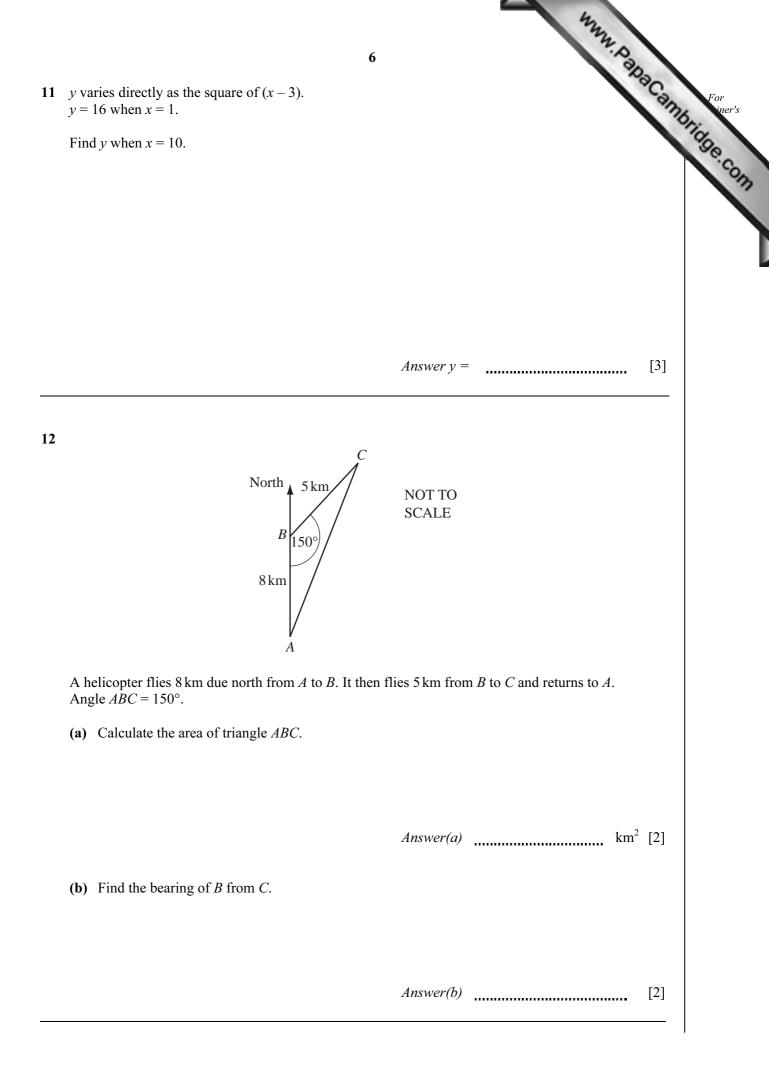
Answer [3]

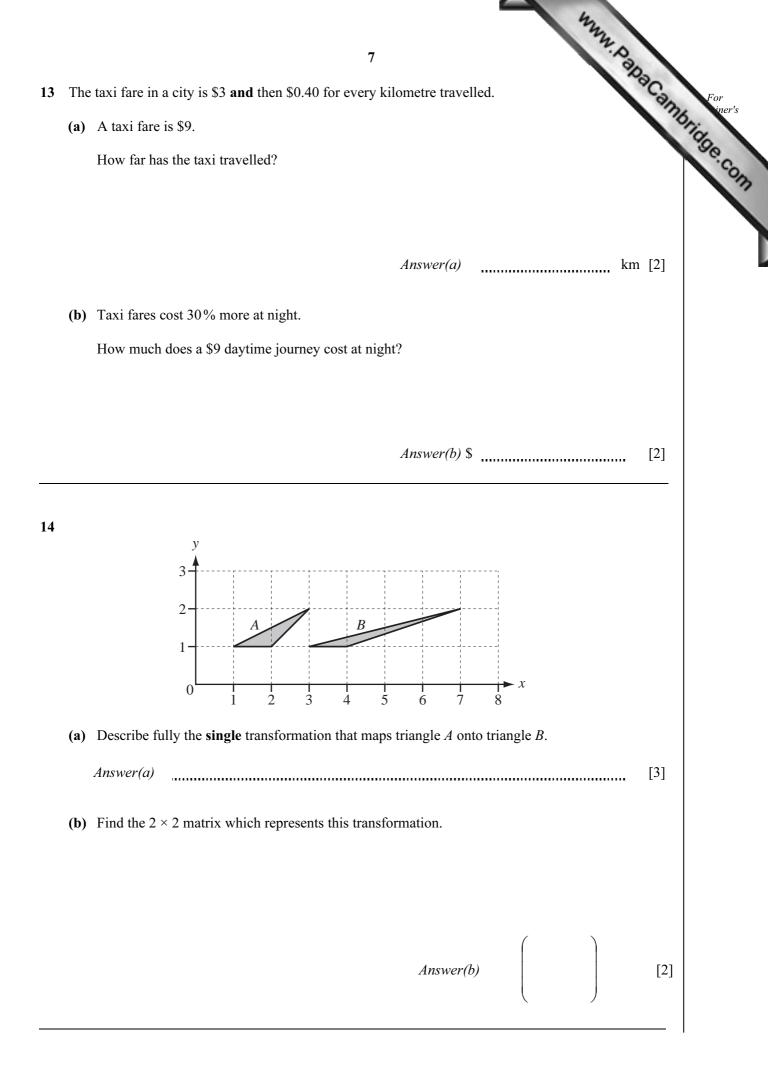
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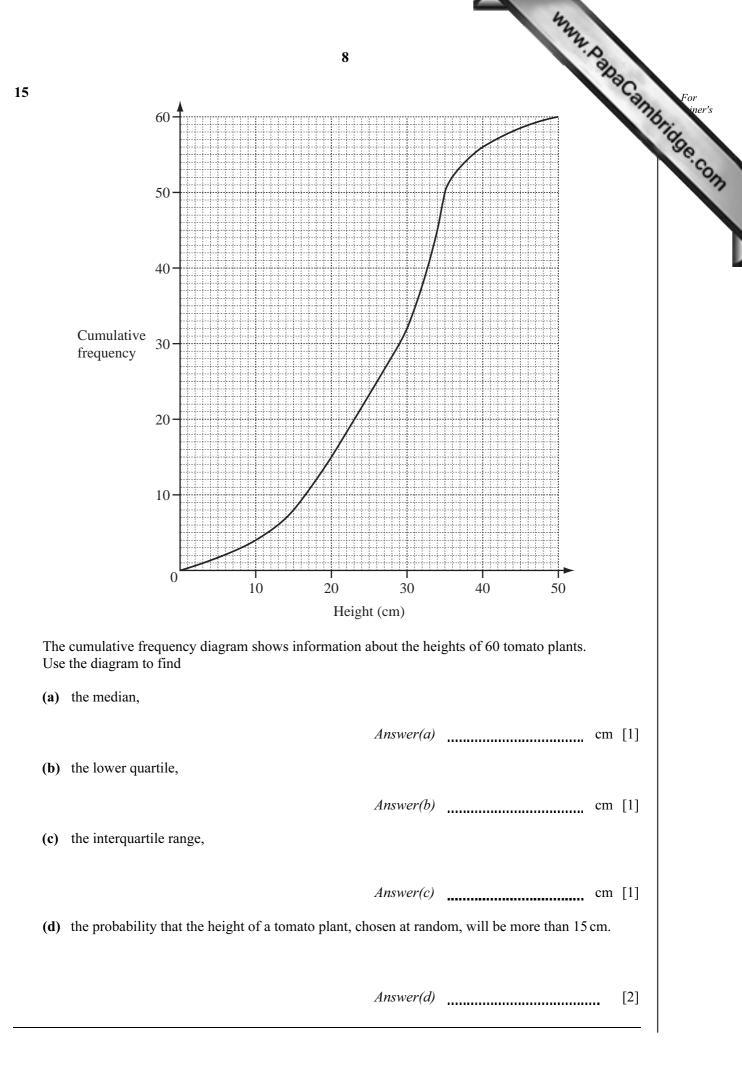
[3]

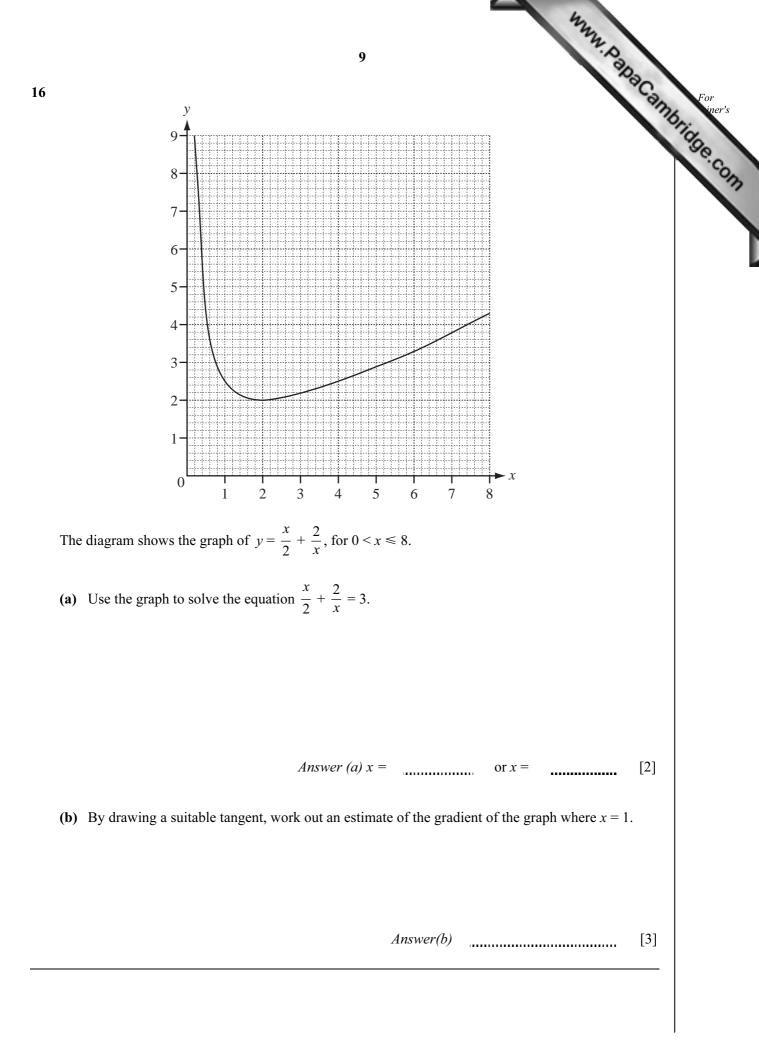
4

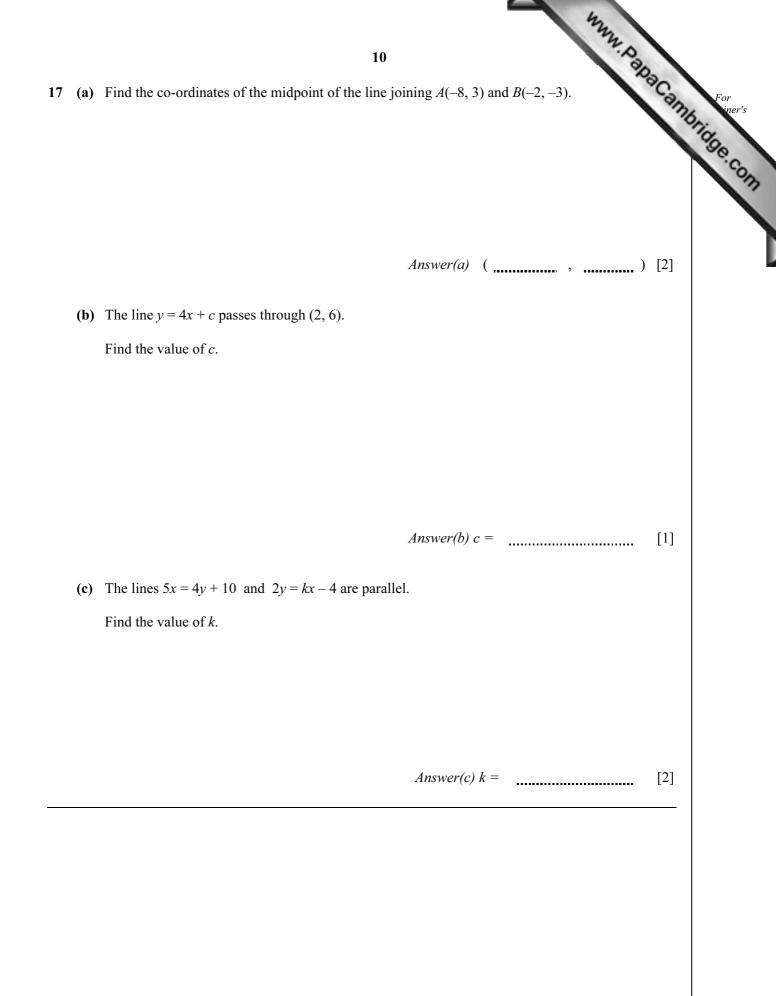


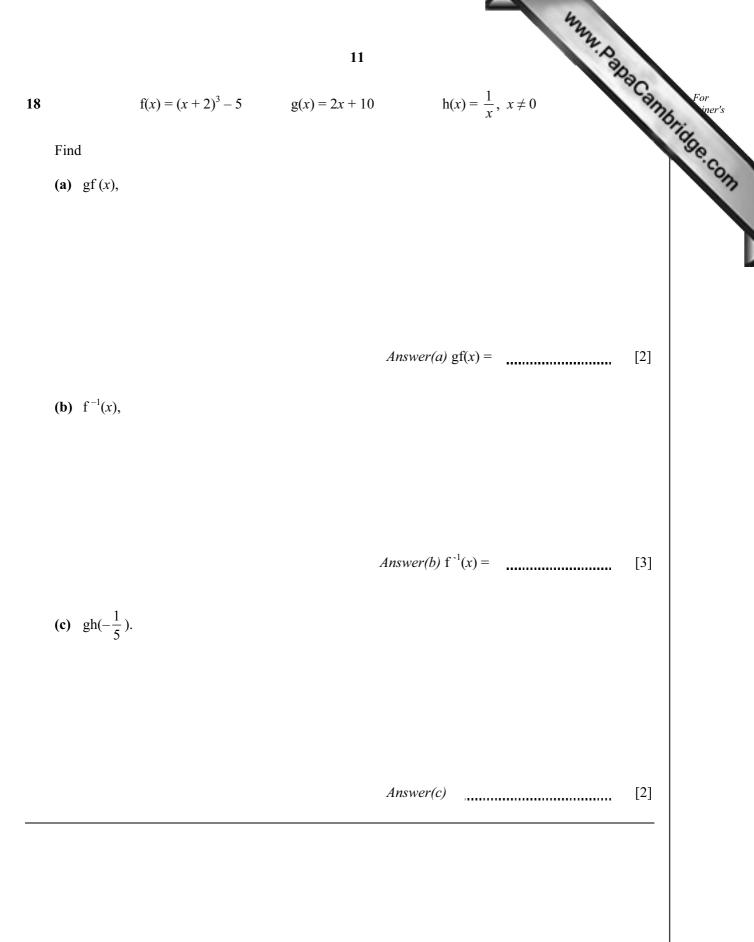




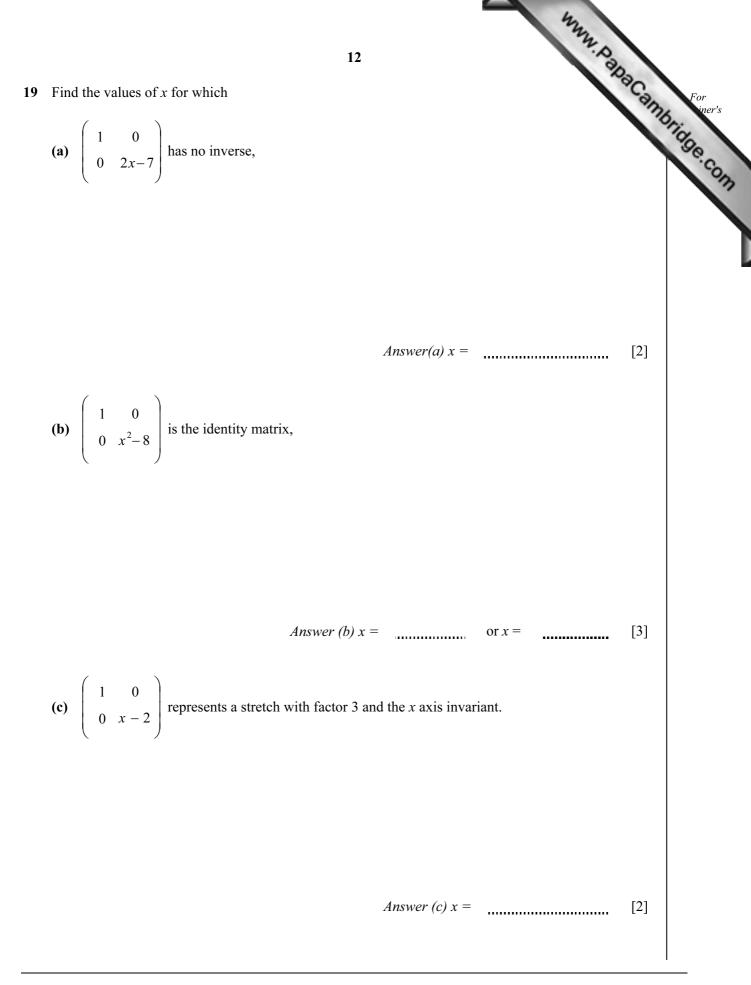








Question 19 is printed on the next page.



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