

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CANDIDATE NUMBER	
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4	CAMBRIDGE I	NTERNATIONAL MATHEMATICS	0607/11
•	Paper 1 (Core)		May/June 2011
3	- F - (/		-
			45 minutes
_ _	Candidates ans		
	Additional Mate	erials: Geometrical Instruments	

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.

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

You may use a pencil for any diagrams or graphs.

DO NOT WRITE IN ANY BARCODES.

Answer all the questions.

CALCULATORS MUST NOT BE USED IN THIS PAPER.

All answers should be given in their simplest form.

You must show all the relevant working to gain full marks and you will be given marks for correct methods even if your answer is incorrect.

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 40.

For Examiner's Use

This document consists of **8** printed pages.



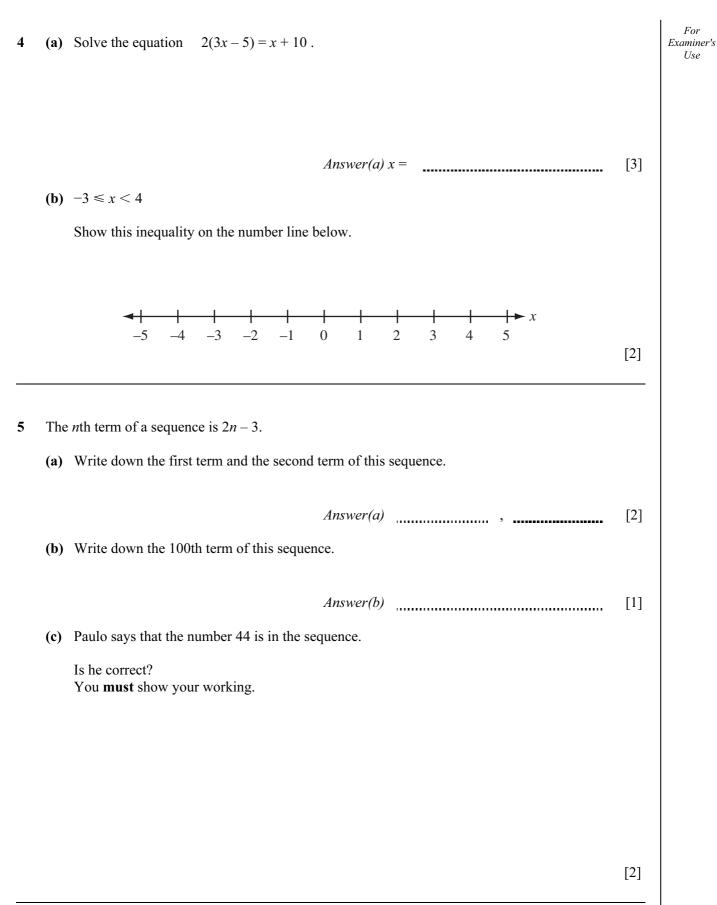
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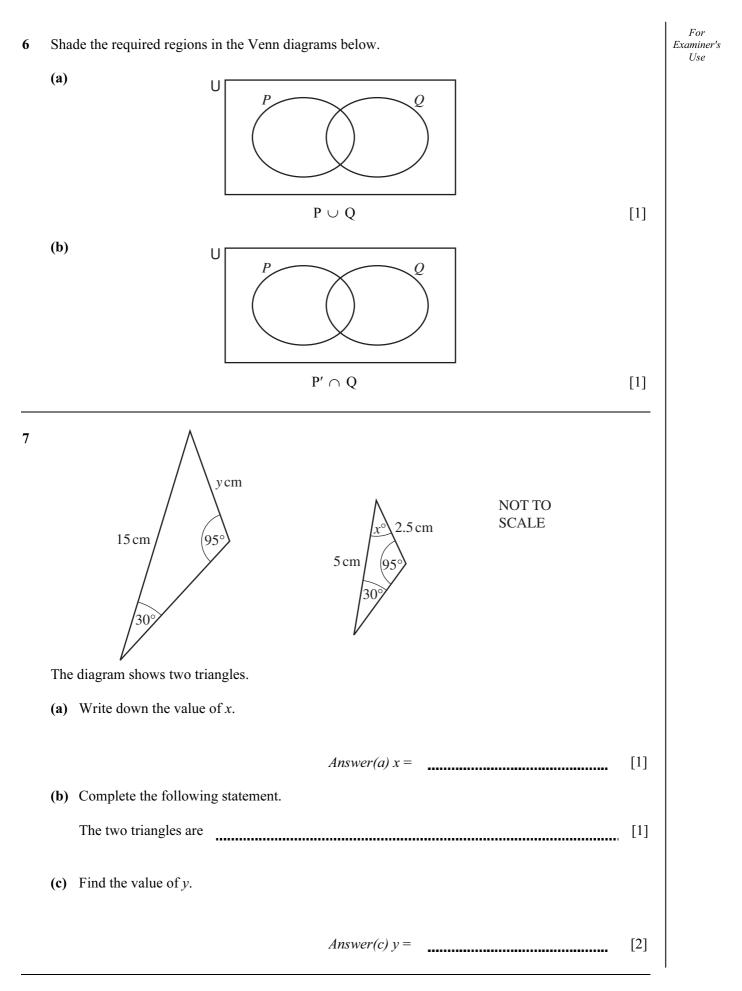
Formula List

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C , of circle, radius r .	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A = 2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Curved surface area, A , of sphere of radius r .	$A=4\pi r^2$
Volume, V , of prism, cross-sectional area A , length l .	V=Al
Volume, V , of pyramid, base area A , height h .	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

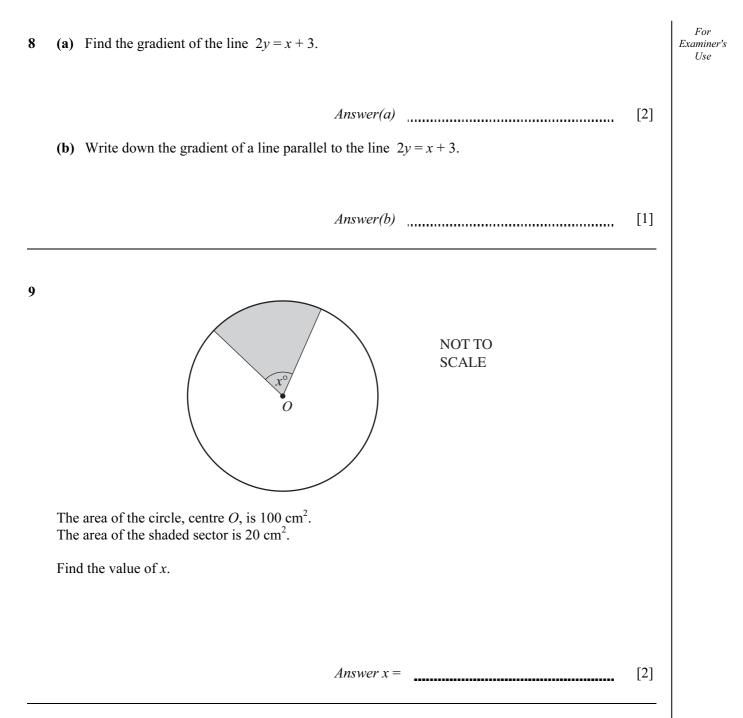
For Answer all the questions. Examiner's Use (a) Write 6.149 correct to 1 decimal place. 1 Answer(a) [1] (b) Write 206 correct to 2 significant figures. Answer(b) [1] (c) Write 0.0023 in standard form. Answer(c) [1] 2 (a) List all four factors of 15. [1] (b) Find the highest common factor of 15 and 21. Answer(b) [2] 3 (a) Write down the number of lines of symmetry of a regular pentagon. Answer(a) [1] (b) A quadrilateral has rotational symmetry of order 2 and no lines of symmetry. Write down the mathematical name of this quadrilateral. Answer(b) [1]

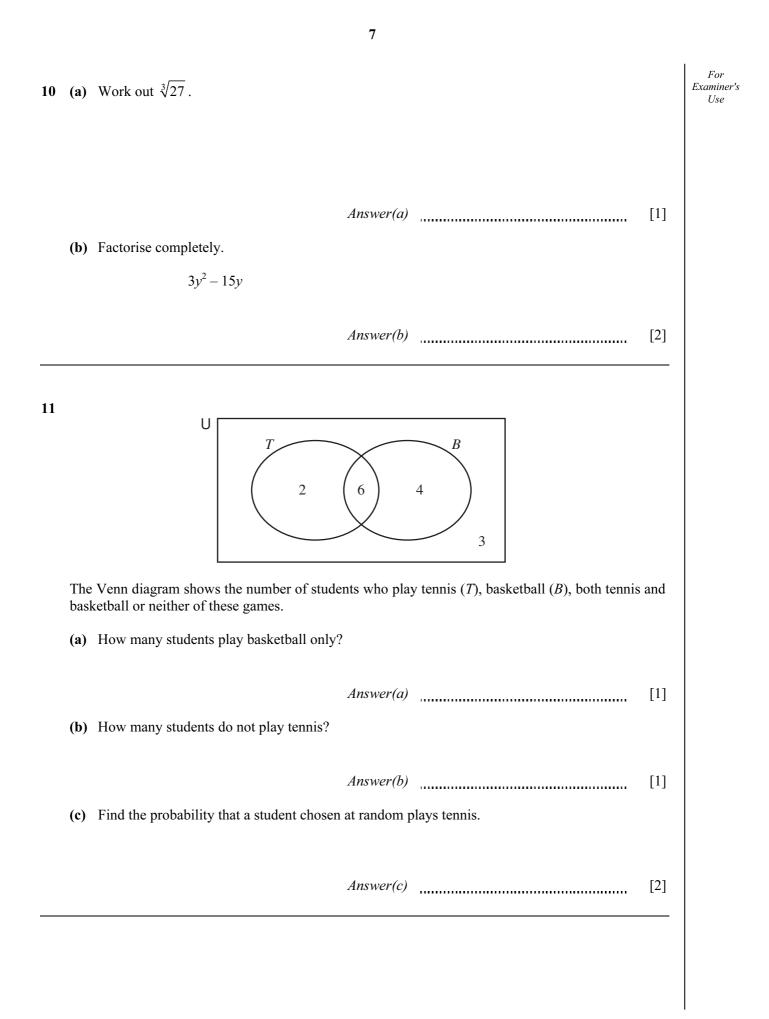
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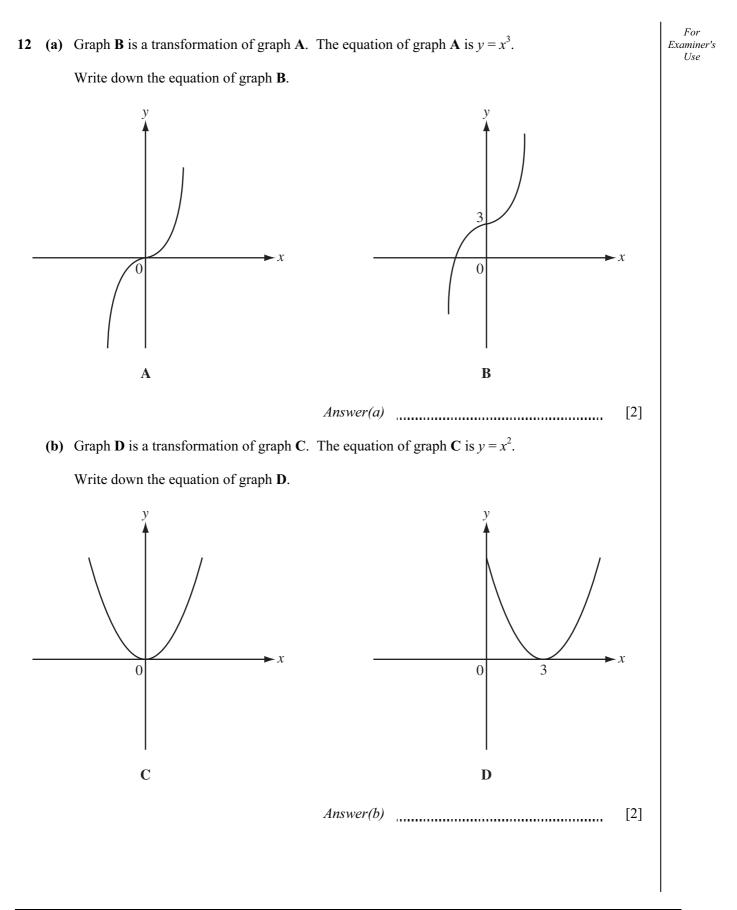




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