

	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIO International General Certificate of Secondary Education	Mun, my marks cloud. com
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE	
CAMBRIDGE Paper 1 (Core)	INTERNATIONAL MATHEMATICS	0607/01 November 2012 45 minutes

Candidates answer on the Question Paper Additional Materials: **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.

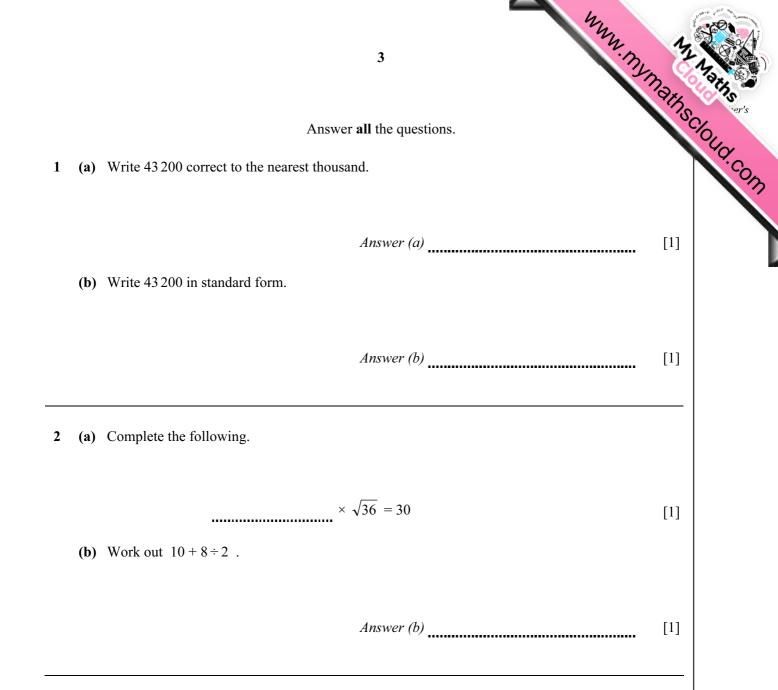
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This document consists of 10 printed pages and 2 blank pages.

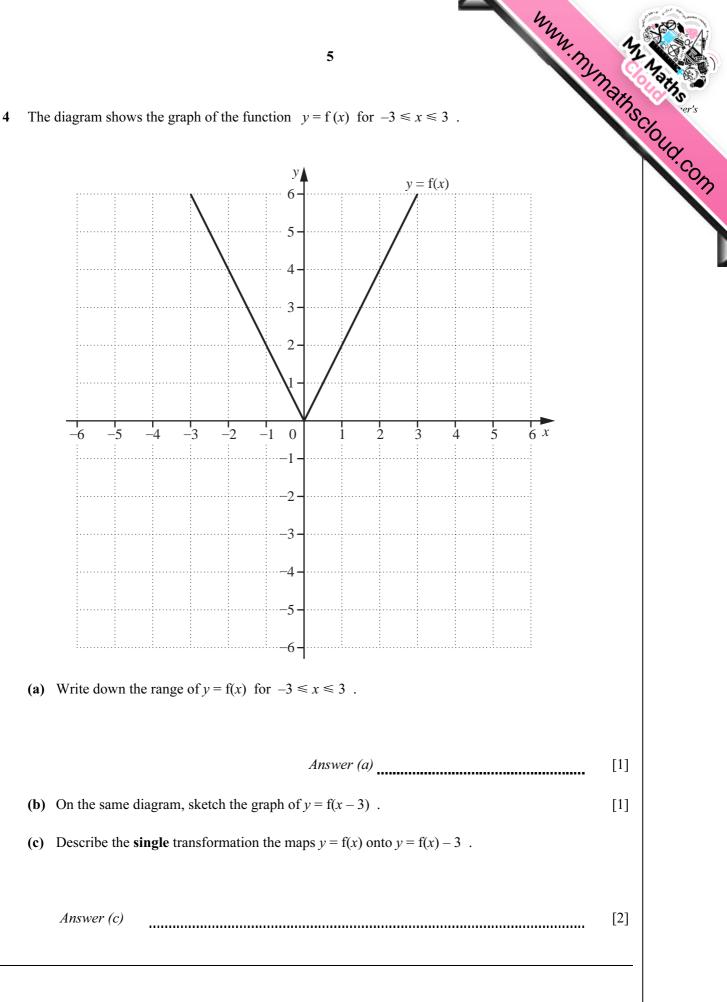
Formula List

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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, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	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 .	$V = \frac{4}{3}\pi r^3$

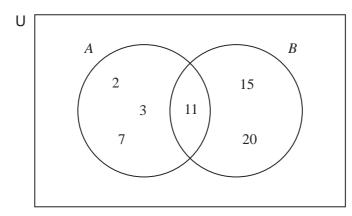


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3	Two adults and one child buy tickets to fly from Vienna to Paris. The adult ticket price is \$44.	aths cloud
	The child ticket price is $\frac{3}{4}$ of the adult price.	Y.COM
	(a) Write down the total cost of two adult tickets and one child ticket.	
	Answer (a) \$	[2]
	(b) The aircraft leaves Vienna airport at 1045 and arrives in Paris at 1315.	
	(i) How long, in hours and minutes, does the flight take?	
	Answer (b)(i) h min	[1]
	(ii) The distance from Vienna to Paris is 1000 km.	
	Find the average speed of the aircraft.	
	Answer (b)(ii) km/h	[2]



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		6 · Mym	12 Ay 38
5	A bag contains yellow, blue and green discs. There are 60 discs in the bag.	6 hun mine	the ser's
	One disc is chosen at random.		U.C.
	The probability that the disc is yellow is $\frac{1}{10}$.		
	The probability that the disc is green is $\frac{3}{10}$.		
	(a) Find the probability that the disc is blue.		
		Answer (a)	[2]
	(b) Work out how many discs are green.		
		Answer (b)	[1]
6	$A = \frac{3\pi r^2}{2}$		
	_		
	Make <i>r</i> the subject of the formula.		
		Answer $r =$	[3]
			_

7 The Venn diagram shows the sets *A* and *B*.



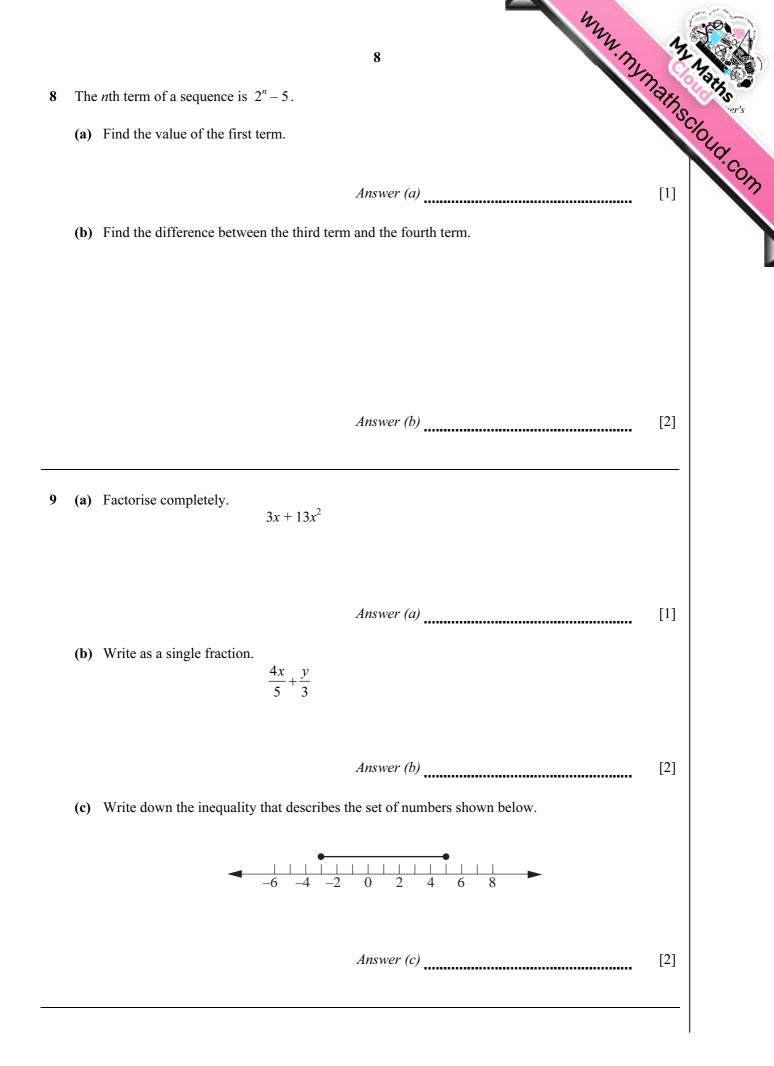
(a) List the elements of set B.

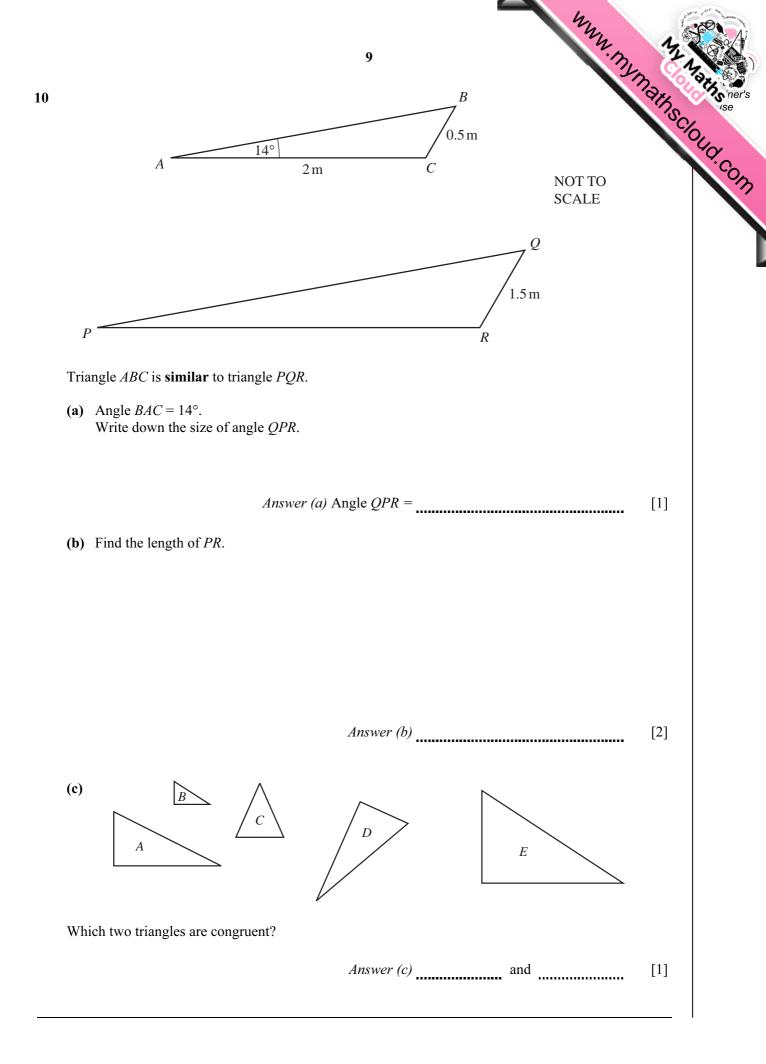
Answer (a) [1]

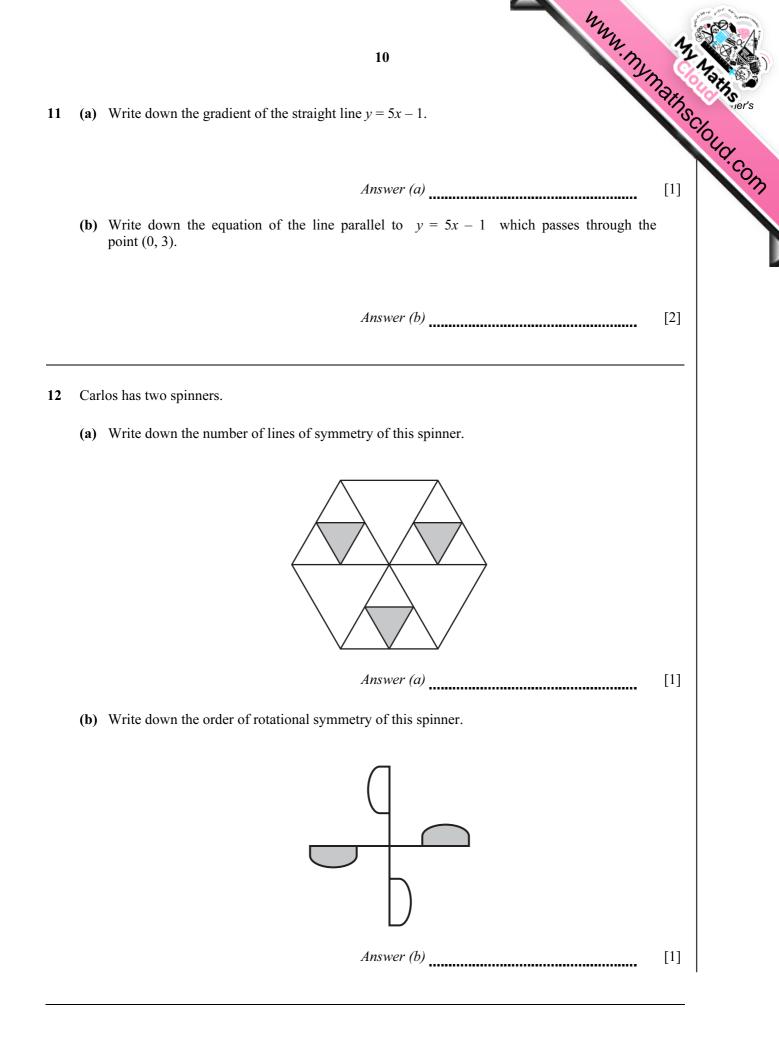
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(b) Complete the following statements.

(i)	2∈		[1]
(ii)	n(<i>A</i>) =		[1]
(iii)	$A \cap B = \{$	}	[1]









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