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	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education
CANDIDATE NAME	
CENTER NUMBER	CANDIDATE NUMBER
MATHEMATIC	S (US) 0444/11
Paper 1 (Core)	May/June 2013
	1 hour
Candidates ans	swer on the Question Paper.

Additional Materials: Geometrical instruments

READ THESE INSTRUCTIONS FIRST

Write your Center 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.

CALCULATORS MUST NOT BE USED IN THIS PAPER.

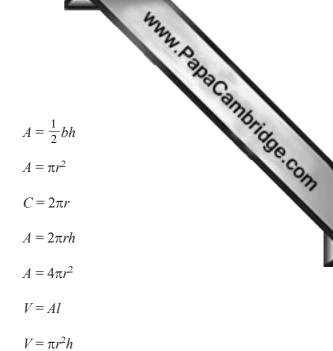
All answers should be given in their simplest form.

If work is needed for any question it must be shown in the space provided.

The number of points is given in parentheses [] at the end of each question or part question. The total of the points for this paper is 56.

This document consists of 12 printed pages.



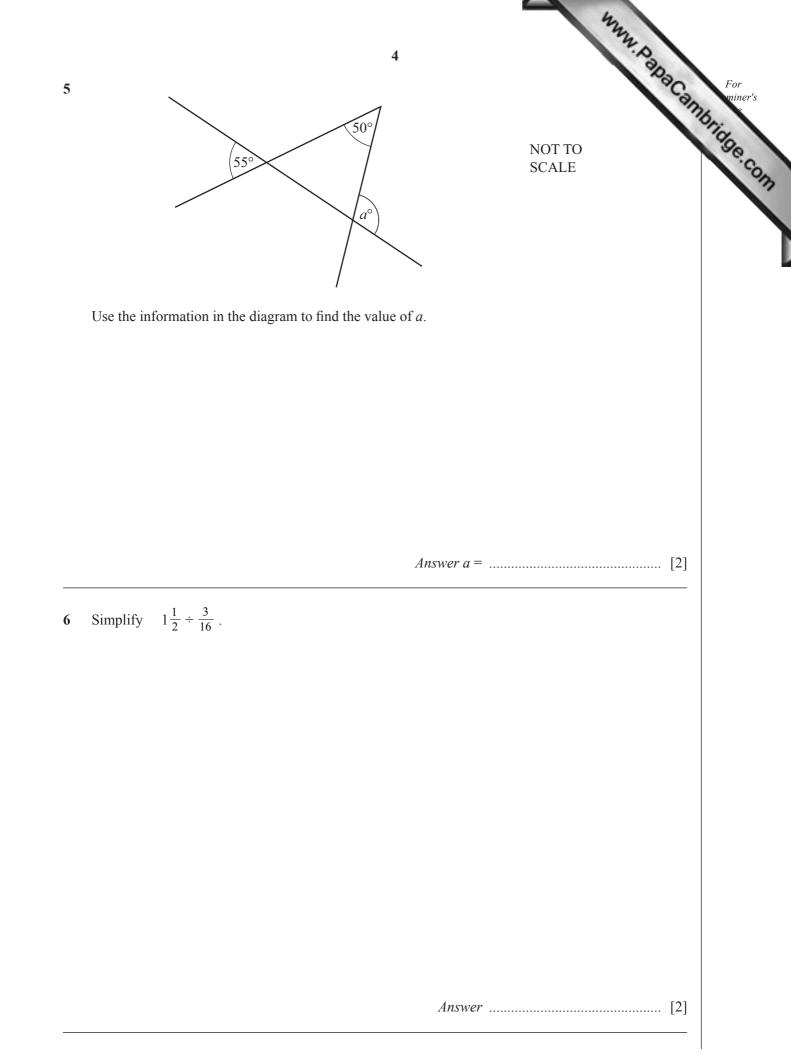


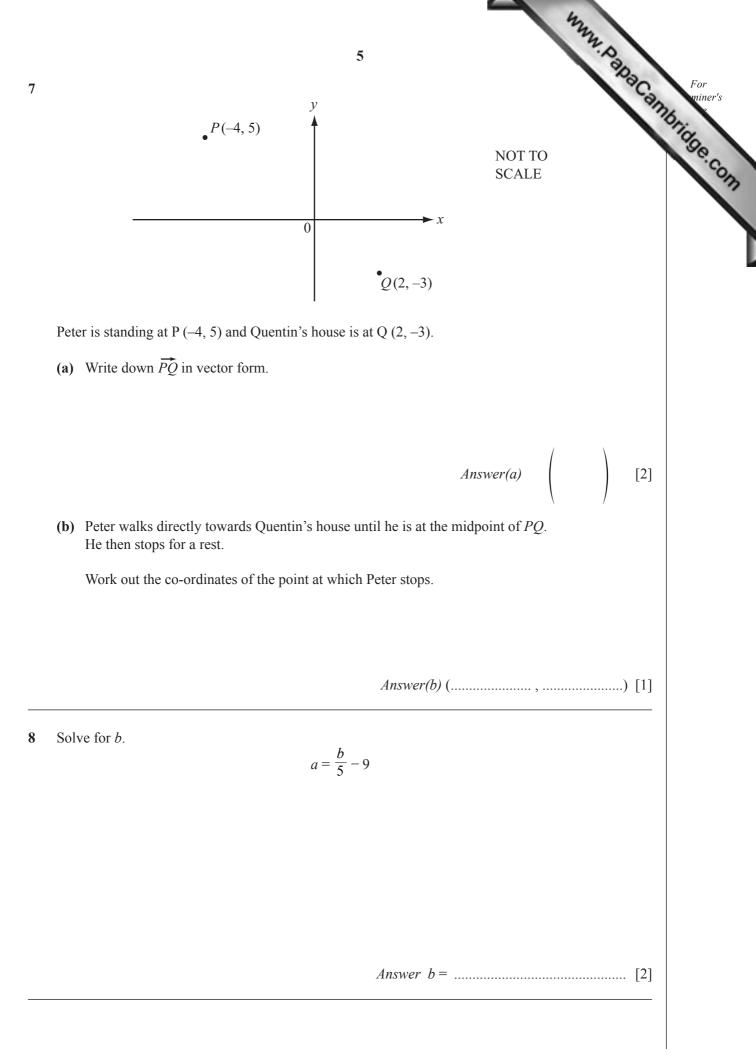
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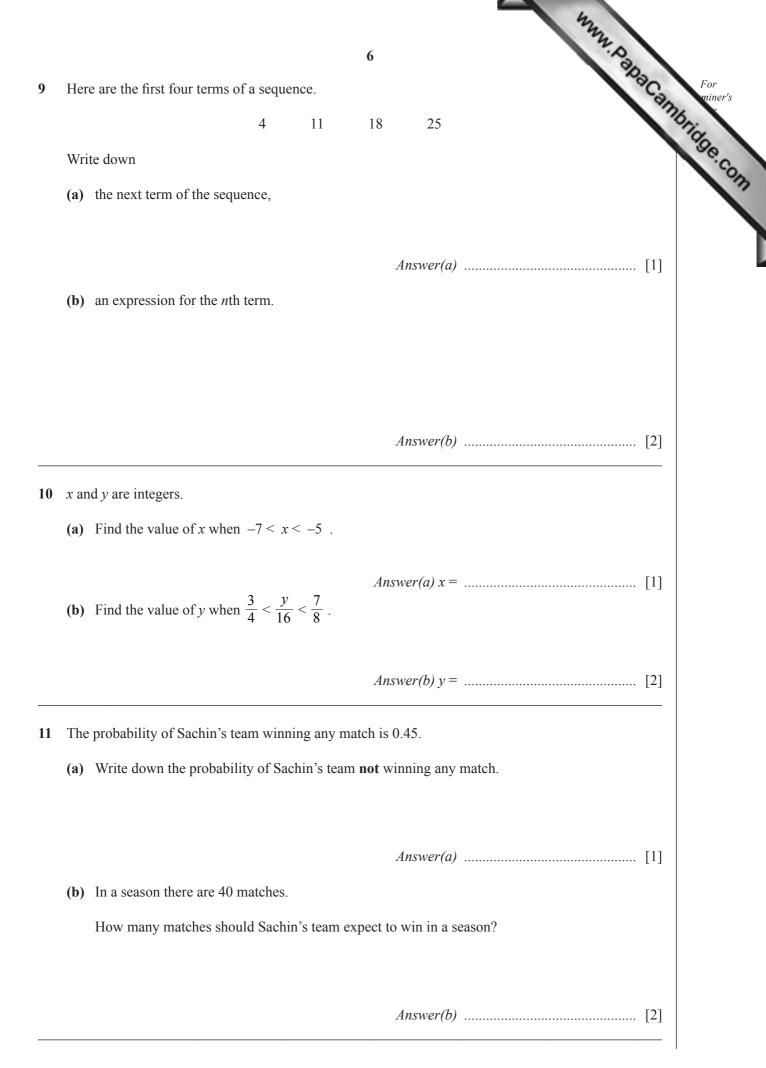
Formula List

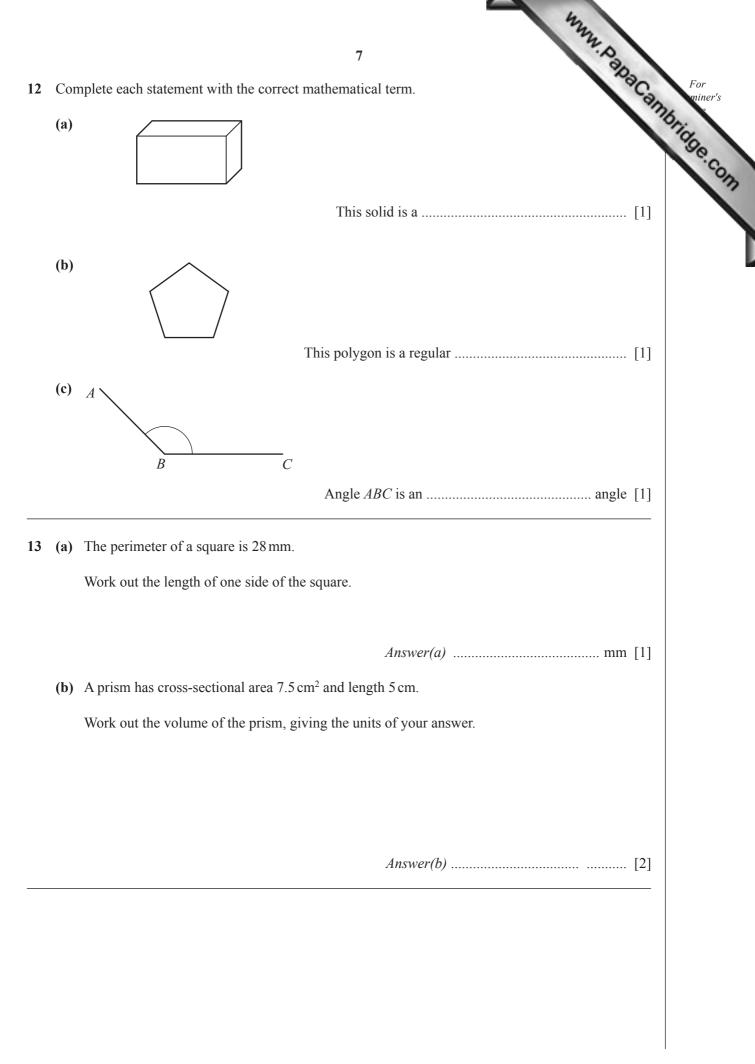
Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C , of circle, radius r .	$C = 2\pi r$
Lateral surface area, A , of cylinder of radius r , height h .	$A=2\pi rh$
Surface area, A , of sphere of radius r .	$A = 4\pi r^2$
Volume, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	V = Al
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

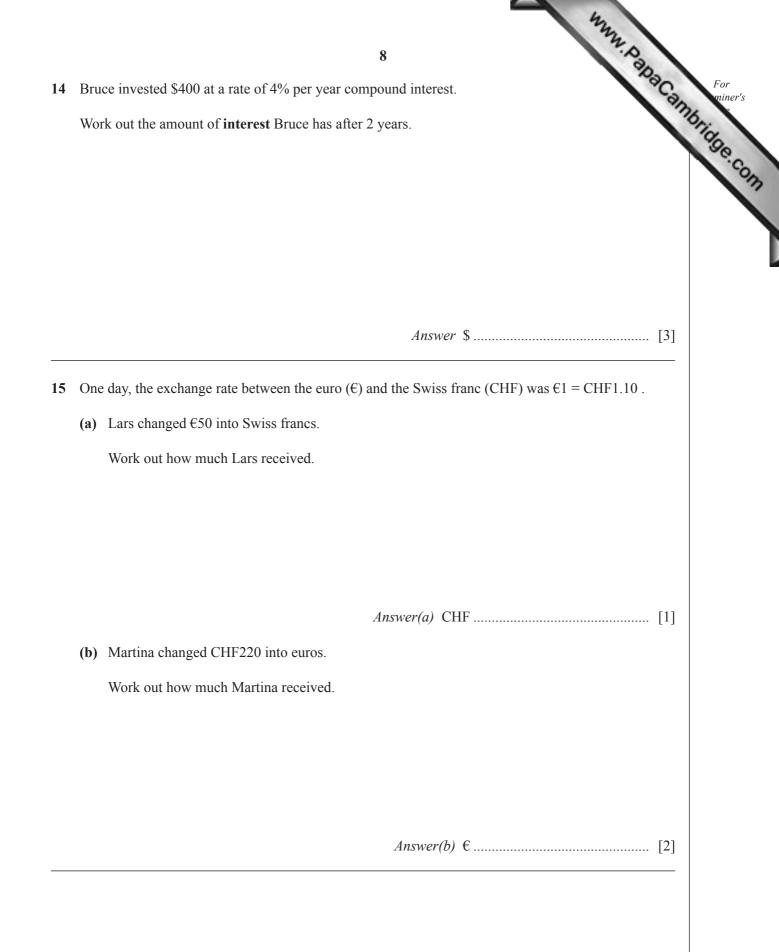
		ma	
		3 Kuran Babo	
1	Write 45% as a fraction in its lowest terms.		amb
			[1]
2	One January day in Munich, the temperature at n At midnight the temperature was -8° C.	100n was 3°C.	
	Write down the difference between these two ten	nperatures.	
		Answer°C	[1]
3	Simplify $\sqrt{49} - 4^2$.		
•			
		4.4.5.4.1.5.4	[2]
		Answer	[2]
4	Pedro and Eva do their homework. Pedro takes 84 minutes to do his homework.		
	The ratio Pedro's time : Eva's time = $7 : 6$.		
	Work out the number of minutes Eva takes to do	her homework.	
		Answer min	[2]

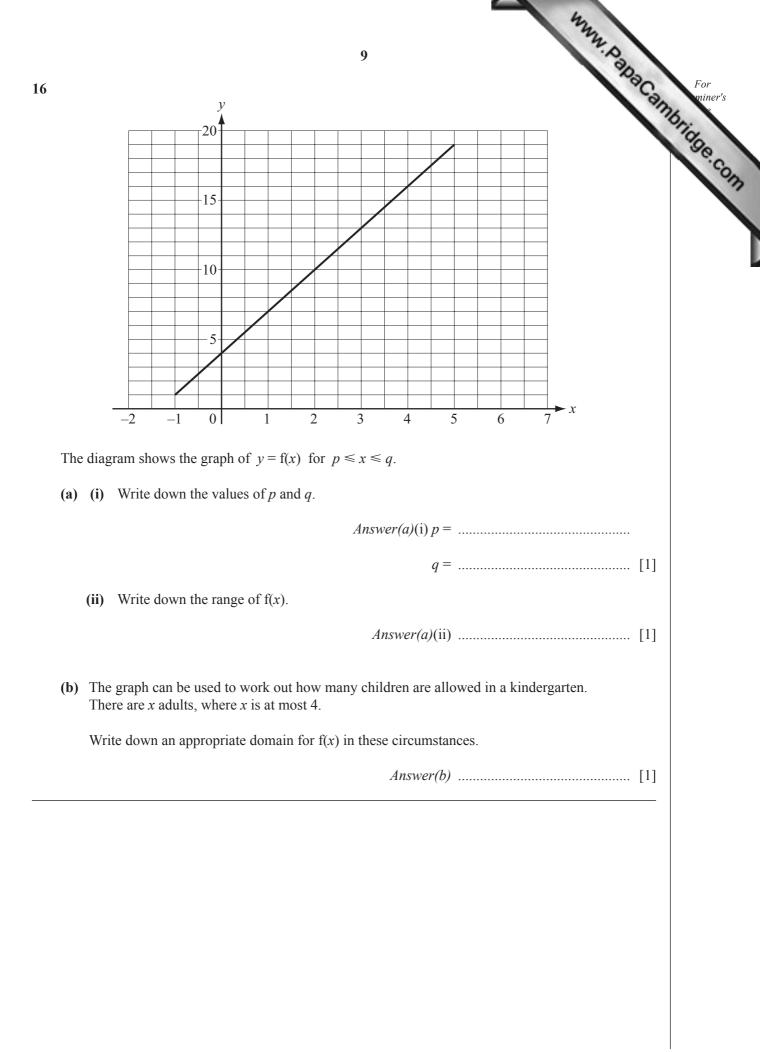


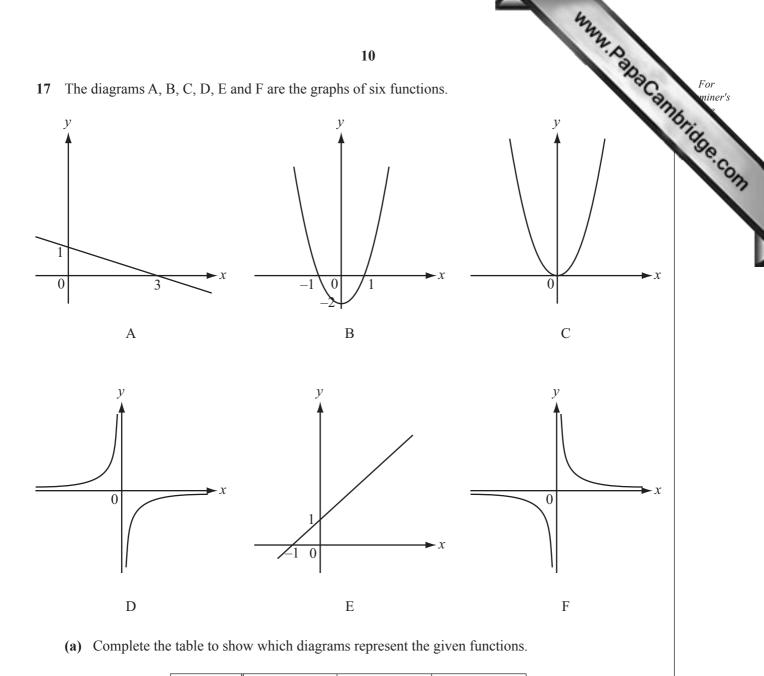








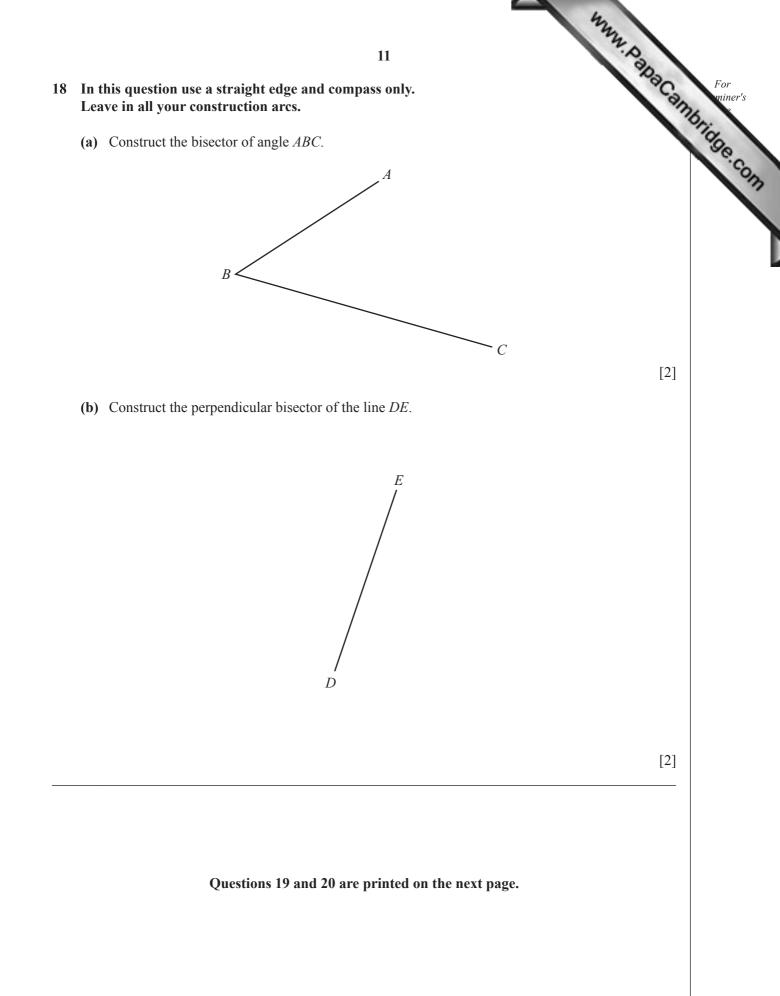


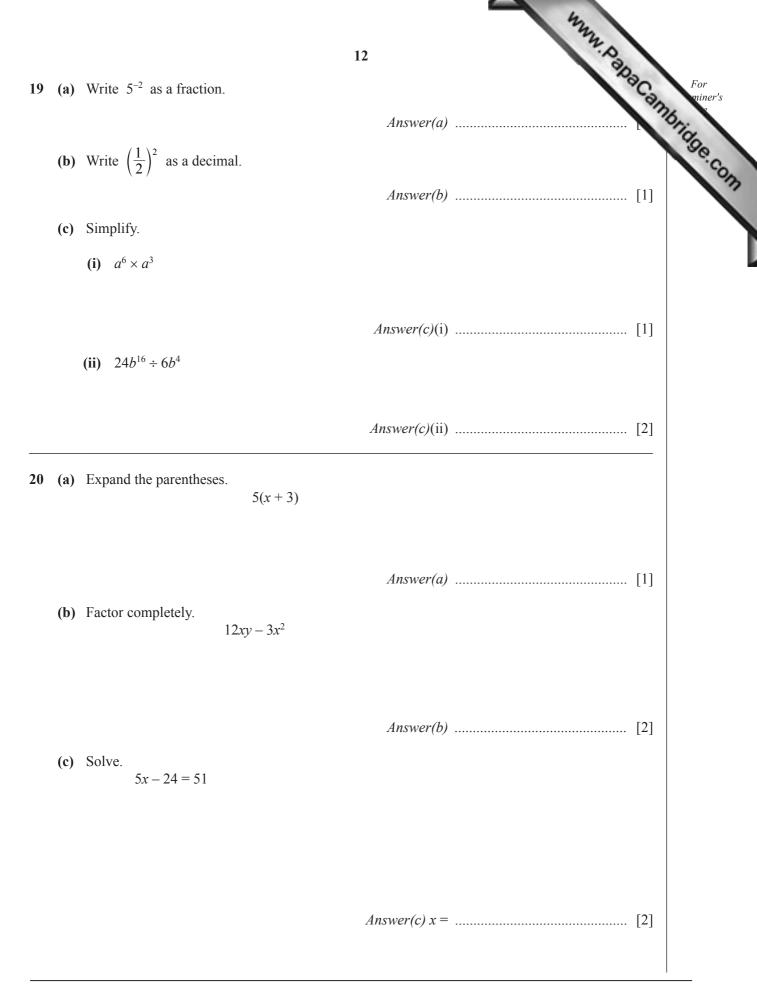


Function	$y = 1 - \frac{x}{3}$	$y = 2x^2$	$y = -\frac{4}{x}$
Diagram	А		

[2]

(b) The function in diagram C is y = f(x) and the function in diagram B is y = f(x) + k. Write down the value of k.





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