

38160159

	MANN. Daba				
	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education				
CANDIDATE NAME					
CENTER NUMBER	CANDIDATE NUMBER				
MATHEMATIC	6 (US) 0444/11				
Paper 1 (Core)	May/June 2013				
	1 hour				
Candidates answer 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.

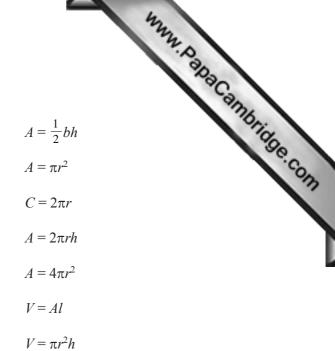
All answers should be given in their simplest form.

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.





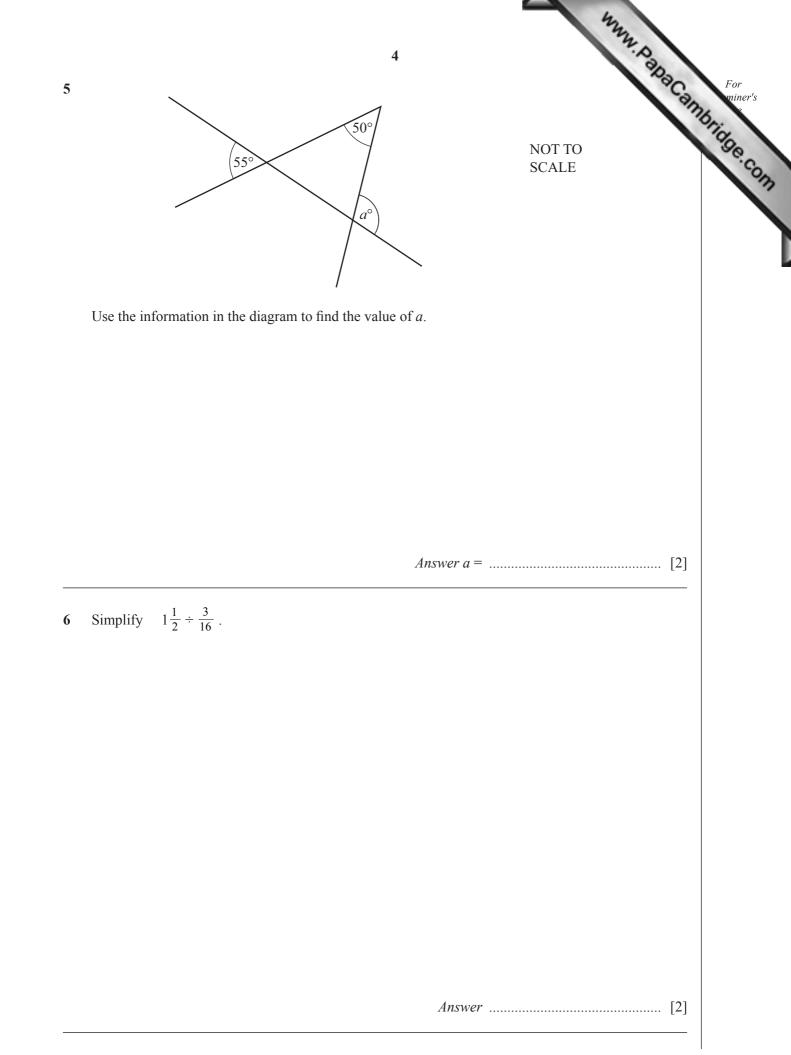
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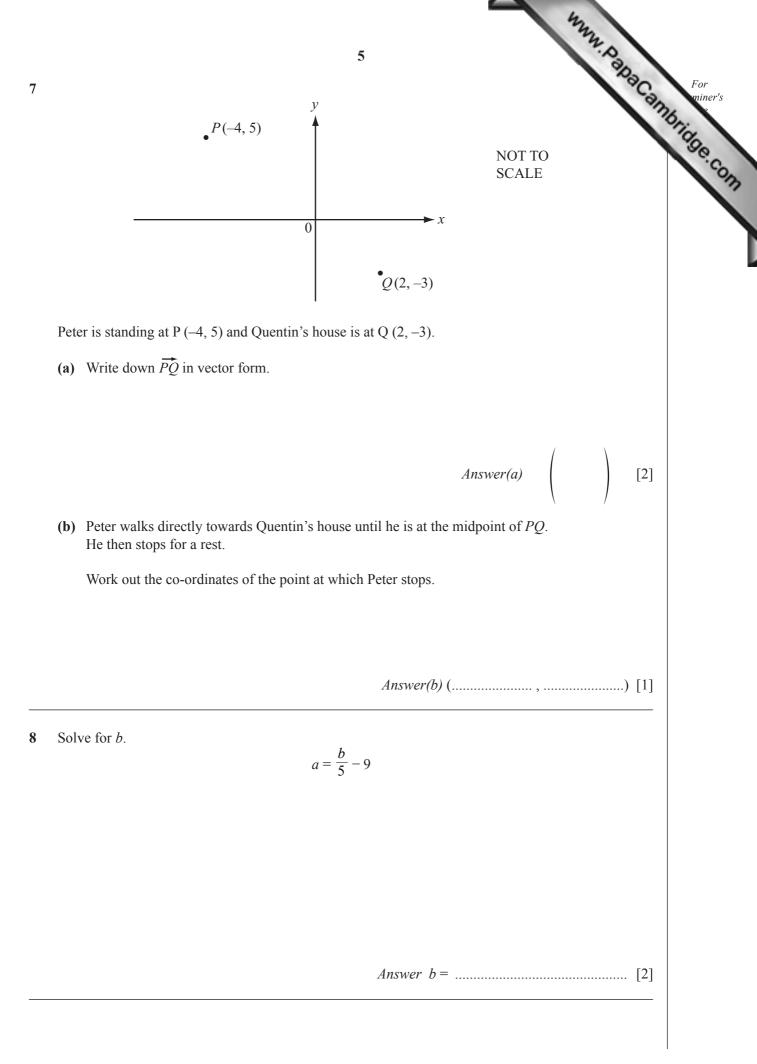
Formula List

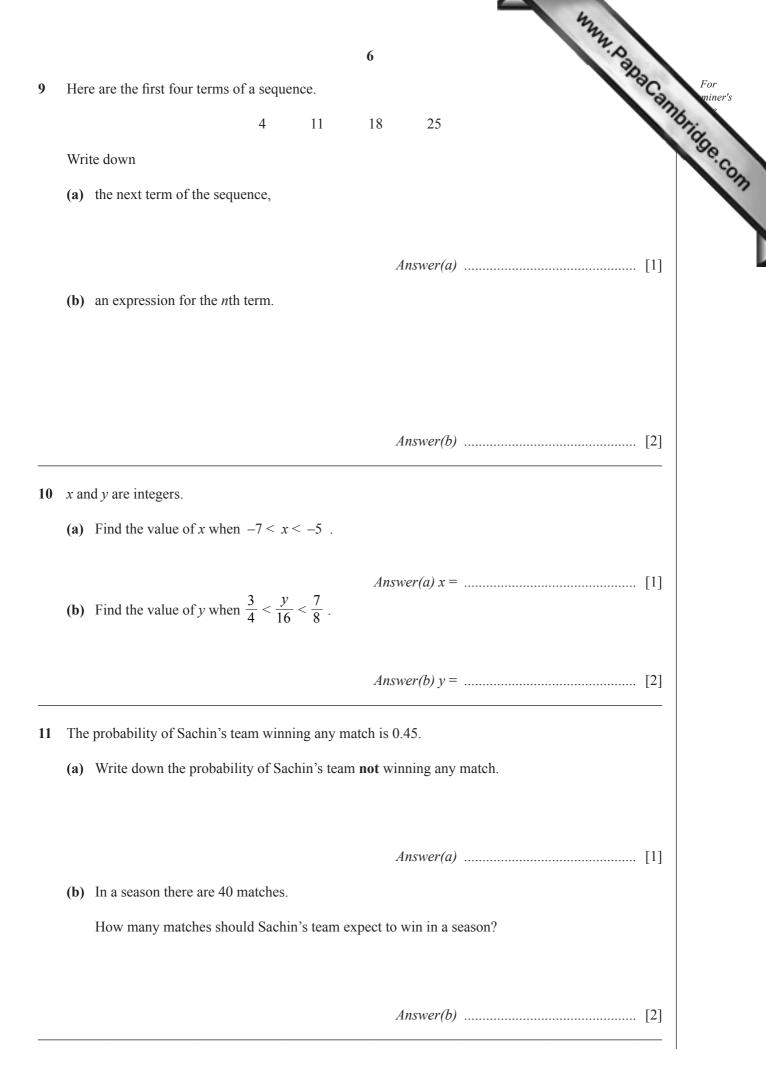
Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, C, of circle, radius r.	$C = 2\pi r$
Lateral surface area, A , of cylinder of radius r , height h .	$A=2\pi rh$
Surface area, A , of sphere of radius r .	$A = 4\pi r^2$
Volume, V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

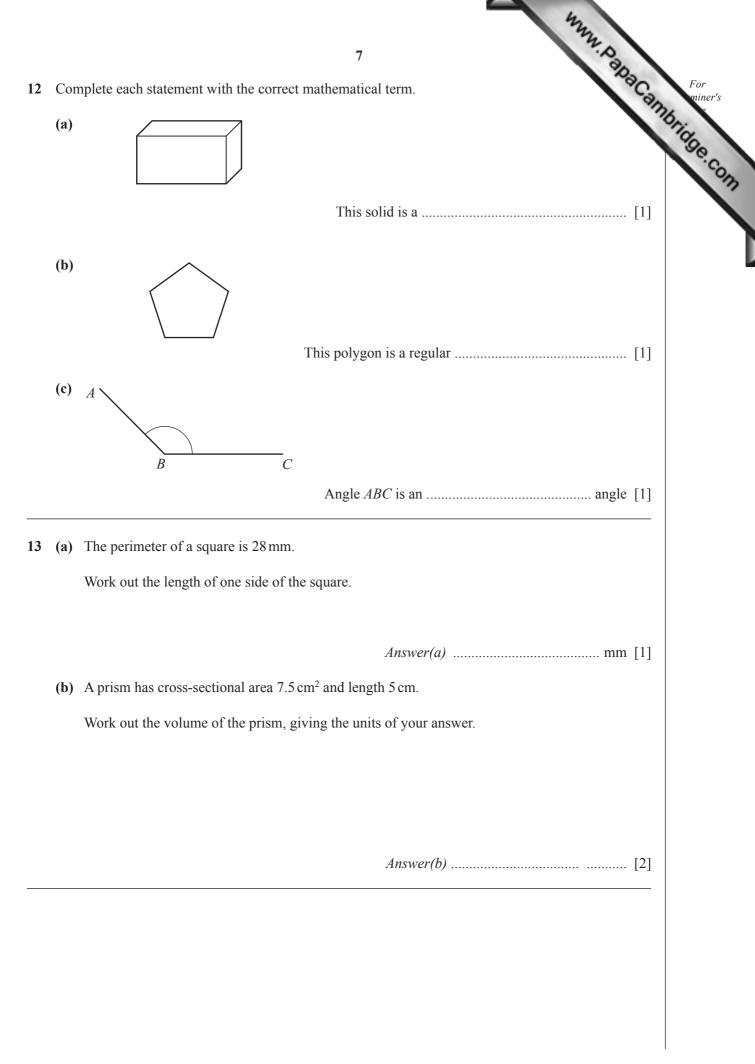
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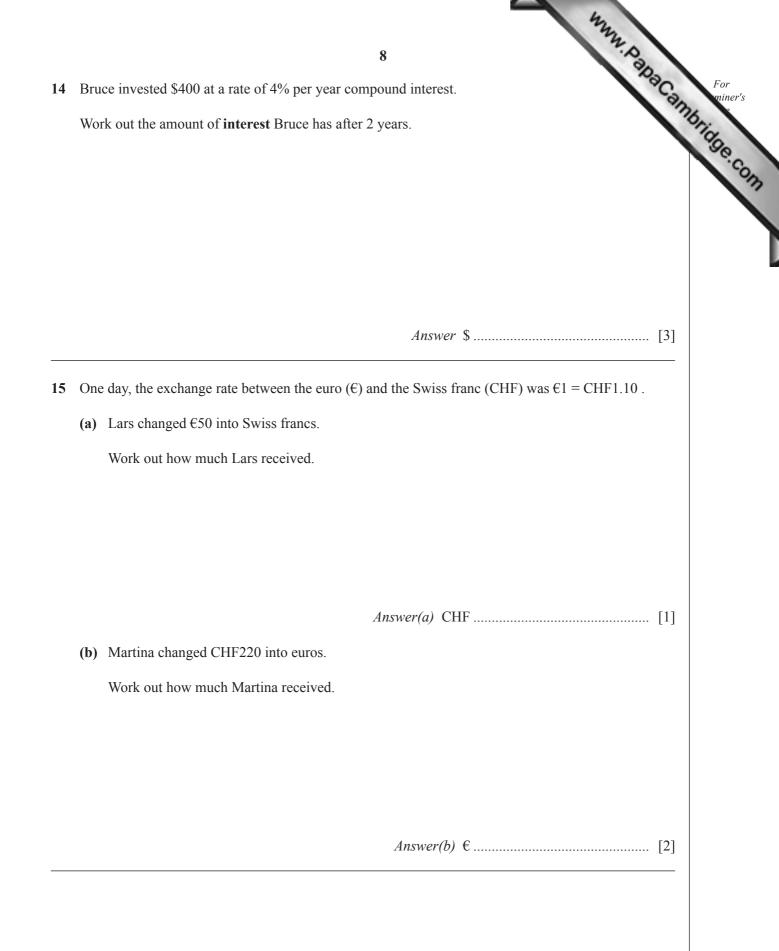
		man	
1		3 www.papao	
1	Write 45% as a fraction in its lowest terms.		amb
		Answer[1	
2	One January day in Munich, the temperature at no At midnight the temperature was -8° C.	oon was 3°C.	_
	Write down the difference between these two tem	iperatures.	
		Answer°C [1	1]
3	Simplify $\sqrt{49} - 4^2$.		
		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	21
			- 1

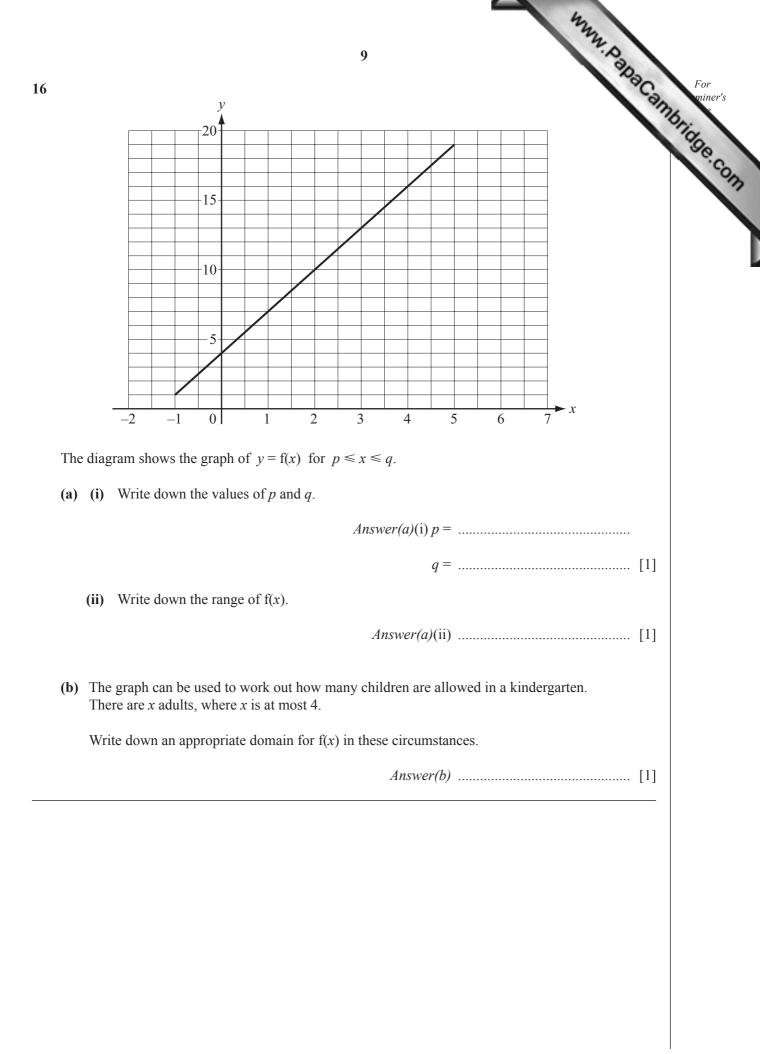


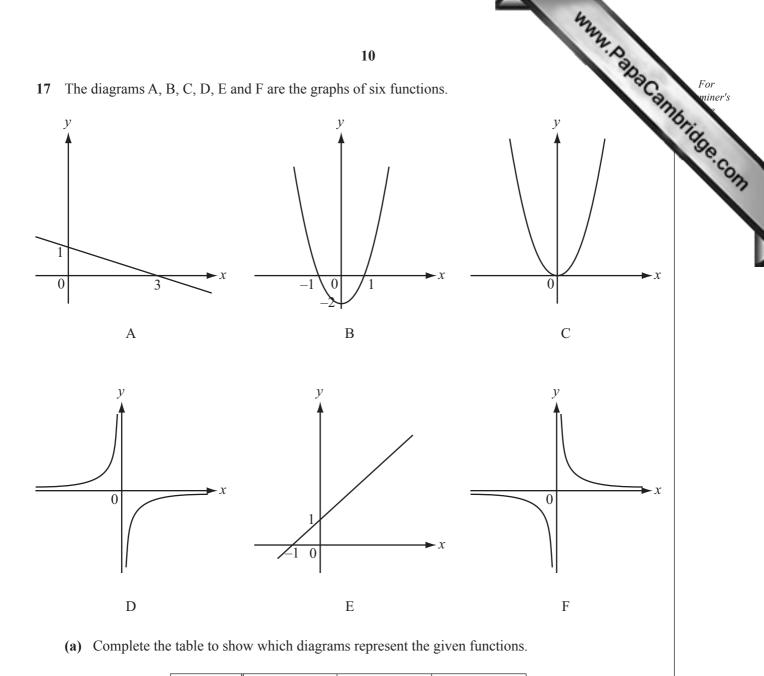








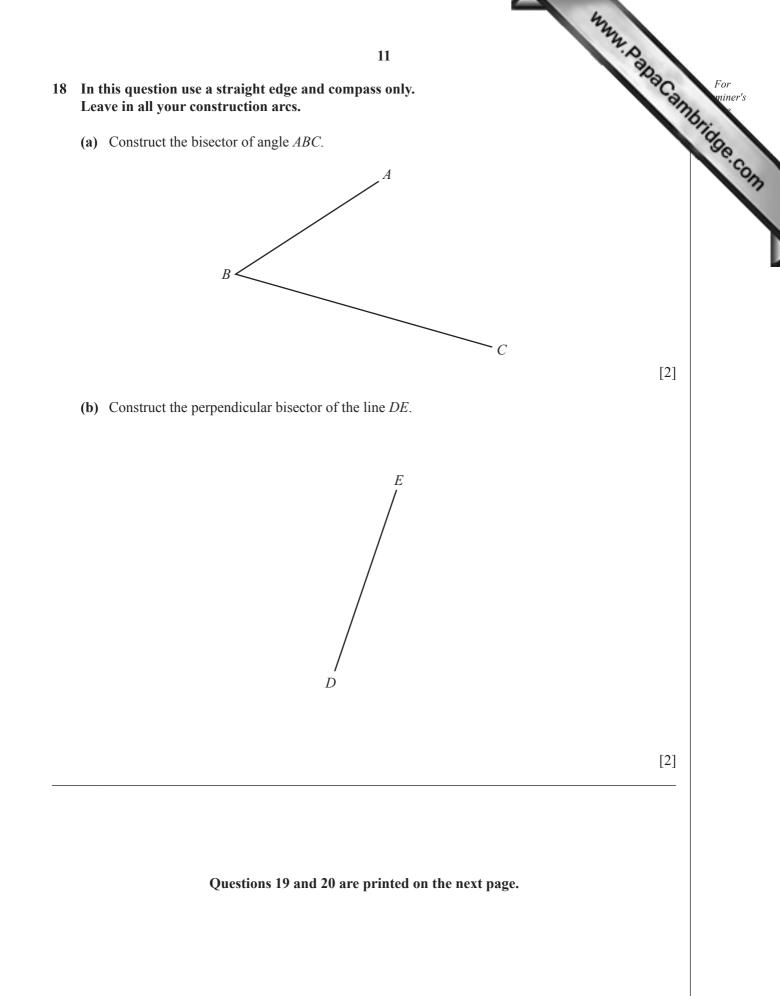


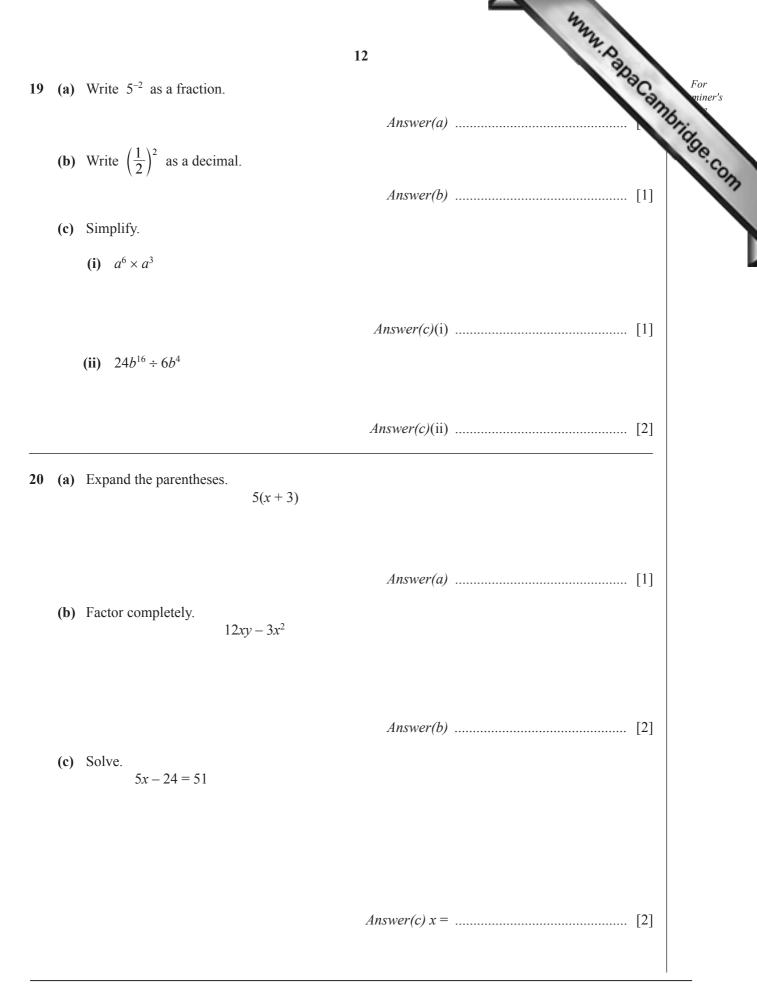


Function	$y = 1 - \frac{x}{3}$	$y = 2x^2$	$y = -\frac{4}{x}$
Diagram	А		

[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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