CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 (Core), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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Abbreviations

cao	correct answer only
dep	dependent
FŤ	follow through after error
isw	ignore subsequent working
oe	or equivalent
SC	Special Case
	and from some a second in

nfww not from wrong working

soi seen or implied

Ç	Juestion	Answer	Mark	Part Marks
1		25	1	
2	(a)	16	1	
	(b)	Different closed shape with area 11 cm ²	2	M1 for 11 seen
3	(a)	-8	1	
	(b)	$\frac{3}{5}$	2	M1 for $\frac{6}{10}$ seen. If zero scored, SC1 for correct simplification of their fraction.
4	(a)	В	1	
	(b)	С	1	
5	(a)	6	1	
	(b)	7	1FT	FT 42 ÷ <i>their</i> (a)
6		$\sqrt{7}$	1	
7		$ \begin{array}{l} x = 1 \\ y = -2 \end{array} $	1 1	If zero, SC1 for 1 and –2 only clearly indicated
8	(a)	240	2	M1 for $\frac{120}{360} \times 720$ oe
	(b)	180	2	M1 for $360 - (120 + 80 + 70)$ seen or better
9		x = 2	1	
10		Both correct ruled tangents	1	and no other lines

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Question		Answer	Mark	Part Marks		
11 (a)	(i)	5x - 17 Final answer	2	B1 for either $5x$ or -17		
	(ii)	$8d^2$ Final answer	1			
	(iii)	$\frac{x}{6}$ oe	2	M1 for $\frac{2x}{6} - \frac{x}{6}$ oe		
(b)		2a(3b-4a)		B1 for answer $2(3ab - 4a^2)$	or $a(6b - 8a)$)
		Final answer		If zero scored, SC1 for correbracket multiplied out	ect answer see	en then
(c)		7	1			
(d)		x < 5.5 oe	2	M1 for correct first step		
		Final answer		If zero scored, SC1 for answ	ver 5.5	
12 (a)		Correct plots	2	B1 for 2 or 3 points plotted	correctly	
(b)		Negative	1			
(c)		Ruled line	1			
		through (4, 3600)	1	Dependant on: single straigh gradient	nt line with ne	gative
13		100	3	M1 for 25 seen		
				and M1 for $\frac{1}{3} \times 25 \times 12$ or by	etter	
14		10	2	M1 for $[c^2 =] 6^2 + 8^2$ or bet	ter	