## MARK SCHEME for the October/November 2015 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 (Core), maximum raw mark 40

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## Abbreviations

cao	correct answer only
dep	dependent
uep	•
FT	follow through after error
isw	ignore subsequent working
oe	or equivalent
SC	Special Case
nfww	not from wrong working

nfww not from wrong working soi seen or implied

Q	Question	Answer	Mark	Part Marks
1		25	1	
2	(a)	16	1	
	(b)	Different closed shape with area 11 cm <sup>2</sup>	2	<b>M1</b> for 11 seen
3	(a)	-8	1	
	(b)	$\frac{3}{5}$	2	M1 for $\frac{6}{10}$ seen. If zero scored, SC1 for correct simpl their fraction.
4	(a)	В	1	
	(b)	С	1	
5	(a)	6	1	
	(b)	7	1FT	<b>FT</b> 42 ÷ <i>their</i> ( <b>a</b> )
6		$\sqrt{7}$	1	
7		$ \begin{array}{l} x = 1 \\ y = -2 \end{array} $	1 1	If zero, <b>SC1</b> for 1 and –2 only clearly indicated
8	(a)	240	2	<b>M1</b> for $\frac{120}{360} \times 720$ oe
	(b)	180	2	<b>M1</b> for $360 - (120 + 80 + 70)$ seen or better
9		<i>x</i> = 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	<b>B1</b> for either $5x$ or $-17$
	(ii)	$8d^2$ Final answer	1	
	(iii)	$\frac{x}{6}$ oe	2	<b>M1</b> for $\frac{2x}{6} - \frac{x}{6}$ oe
	(b)	2a(3b-4a) Final answer	2	<b>B1</b> for answer $2(3ab - 4a^2)$ or $a(6b - 8a)$
		r mar answer		If zero scored, <b>SC1</b> for correct answer seen then bracket multiplied out
	(c)	7	1	
	( <b>d</b> )	x < 5.5 oe Final answer	2	M1 for correct first step
		r mai answei		If zero scored, <b>SC1</b> for answer 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 straight line wi gradient
13		100	3	M1 for 25 seen and M1 for $\frac{1}{3} \times 25 \times 12$ or better
14		10	2	<b>M1</b> for $[c^2 = ] 6^2 + 8^2$ or better