

**MARK SCHEME for the October/November 2010 question paper
for the guidance of teachers**

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/02

Paper 2 (Extended), maximum raw mark 40

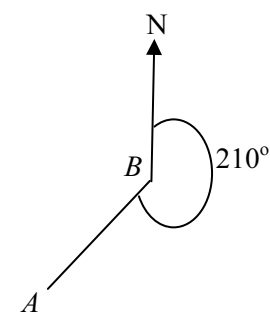
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began,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

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2	Mark Scheme: Teachers' version	Syllabus
	IGCSE – October/November 2010	0607

1	(a)	$5\sqrt{3}$	B2	Award M1 for evidence of $\sqrt{25 \times 3}$
	(b)	3	B1	
2		$c(2a - 5b) + 3(2a - 5b)$ or $2a(c + 3) - 5b(c + 3)$	M1	
		$(2a - 5b)(c + 3)$ www2	A1	
3		$\frac{a-1}{6-2} = \frac{3}{2}$ oe For correctly setting out the gradient	M1	<u>Alternative solution</u> $y = \frac{3}{2}x - 2$ $a = \frac{3}{2} \times 6 - 2$ For substituting a and 6 correctly $a = 7$
		$2a - 2 = 12$ For a correct method to eliminate the fractions from a correct equation	M1	
		$a = 7$ www3	A1	
4	(a)	45	B1	If B0 award B1 for 30 or 55 seen and not spoiled by use of 150 and/or 50 If B0 award B1 for 128 to 132 inclusive seen
	(b)	25	B2	
	(c)	34 to 36 inclusive	B2	
5	(a)	x^2y oe	B1	B1 for $2x^2$, B1 for $4xy$
	(b)	$4xy + 2x^2$ oe	B2	
6	(a)		P1	A and B must be labelled correctly, with A between South and West
	(b)	$50\sin 30$ seen oe 25 ww2	M1 A1	Allow implicit form If scale drawing used then M0

