## Bearings – Paper 2 – Mark Scheme

## **Question 1**

Jue	stion	1			
21	<b>(a)</b> 1	8.7	3		or $\sin R = 50 \times \frac{\sin 140}{100} (= 0.3219)$
				or M	1 for $\frac{\sin R}{50} = \frac{\sin 140}{100}$ oe
	<b>(b)</b> 2	261(.3)	2ft	M1 3	60 - 80 - their (a)
ຸລາຍ	stion	2			
13	(a)	52	2	M1	OAB or $OBA = 38$ or $OCT = 90$
	(b)	322	2	M1	BCT = 38  or  BCO = 52
ຊຸມຍ	stion	3			
21	(a)	84(.00)	4	M2	for $\cos(\ldots) = \frac{2.7^2 + 4.5^2 - 5^2}{2 \times 2.7 \times 4.5}$ or
					l for $5^2 = 2.7^2 + 4.5^2 - 2 \times 2.7 \times 4.5 \times \cos C$ ) for 0.1045 (implied by correct answer)
	(b)	136	1ft	t 220	- their (a)
Que	stion	4			
12 (a)		10(.0)	2	<b>M1</b> $\frac{1}{2} \times 8 \times 5 \times \sin 150$	
	(b)	210	2	M1 3	$0^{\circ}$ correctly placed at <i>B</i> or <i>C</i> oe
ຊຸ່ມe	stion	5		-	
16		142 or 142.0		5	<b>B1</b> for $CBD = 30$ <b>M2</b> for $[\sin D =] \frac{6 \times \sin theirB}{8}$ oe or <b>M1</b> for $\frac{6}{\sin D} = \frac{8}{\sin(their30)}$ oe <b>A1</b> for $[D =]$ 22 or 22.0 or 22.02 <b>B1FT</b> for 90 + (their30 + their22) evaluated correctly for their final answer or for 360 - 90 - theirBCD evaluated correctly for their final answer
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λne	stion	6			