# MME

### GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

## Sine & Cosine Rule (Mixed)

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



#### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

#### Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

#### Advice

· In all calculations, show clearly how you work out your answer.



2 Two triangles *CDB* and *ADB* are joined along *DB*, shown below. DC = 6 cmCB = 7 cmDB = 5 cmBA = x cm $\angle DAB = 30^{\circ}$ A Not drawn accurately 30° D x cm 5 cm 6 cm С В 7 cm Find the value of *x*. Give your answer to 1 decimal place. [5 marks] Answer cm Turn over for next question Turn over ►

3	The tallest point of a building is given the letter $A$ , shown below.	
	Points <i>B</i> and <i>C</i> are horizontal to the ground such that angle <i>ABC</i> is $22^{\circ}$ and <i>ACB</i> is $18^{\circ}$ , shown below.	
	A	
		<b>&gt;</b>
	<i>B</i> 120 m	C
	Given that the distance $BC = 120 \text{ m}$ , calculate the height of the building to the nearest metre.	
		[4 marks]
	Answer m	
	Turn over for next question	







6(b)	Find the bearing of <i>E</i> from <i>D</i> .	
	Give your answer to the nearest degree.	
		[3 marks]
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	Answer	
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