

Please write clearly in block capitals

GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 3 - 4)

Geometry Problems Foundation

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.

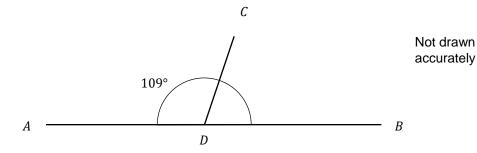
1(a) Line *ADB* is a straight line.

(Level 3)

Find the angle CDB shown below.

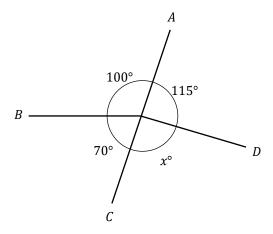
Give a reason for your answer.

[2 marks]



Answer

1(b) ABCD are points around a circle.



Not drawn accurately

Find the value of x

Give a reason for your answer.

[2 marks]

Answer

2	ACB forms a triangle shown below	(Level 3)
	ABD is a straight line.	
		drawn curately
	35° x° 105°	
	A B D	
2(a)	Find angle <i>x</i>	
	Give a reason for your answer.	
		[2 marks]
	Answer	
2(b)	Find angle <i>y</i>	
	Give a reason for your answer.	
		[2 marks]
	Answer	
	Allower	
	Turn ever for next evertion	
	Turn over for next question	

Turn over ▶

3	ACBD forms a quadrilateral shown below.	(Level 3)
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Not drawn accurately
3(a)	Find x	
	Give a reason for your answer.	[2 marks]
	Answer	
3(b)	Find y	
	Give a reason for your answer.	[2 marks]
	Answer	
	Turn over for next question	

Turn over ▶

		ngle shown below. A	Not drawn accurately	(Level 3)
		70°	accuracy,	
			\sum_{c}	
Find x				
Give a r	reason for your answ	ver.		
				[2 marks]
	Answer		0	_
b) EDF fo	rms an isosceles tria	angle shown below.		
		E y°		
		D 61°	\sum_{F}	
Find the	e value of y			
Give a r	reason for your answ	ver.		
				[2 marks]
	Answer		0	
	AHSWEI .	Turn over for next question		

Turn over ▶

5	A compound shape is shown in the diagram below.	(Level 4)
Ü	ADEC forms a quadrilateral	(200014)
	ABC is an isosceles triangle	
	FAD is a straight line	
	$\angle CAD = x^{\circ}$	
	$\angle BAC = y^{\circ}$	
	$\angle ABC = z^{\circ}$	
	Not dra	
	$F \xrightarrow{24^{\circ}} x^{\circ}$	
	$B \longrightarrow z^{\circ}$	
	85°	
	65°	E
F(a)	C Find x	L
5(a)	FING X	[1 mark]
		[1 mark]
	Answer °	_
5(b)	Find y	
		[1 mark]
	Answer	_
F(-)		
5(c)	Find z	[1 mark]
		[1 IIIaik]
		_
	Answer °	
	End of questions	

END