Name:

GCSE (1 – 9)

Angles in Parallel Lines

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each Question are shown in brackets
- use this as a guide as to how much time to spend on each Question.

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

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C	(y		D	
AB and CD are para	llel lines.			
(a) Write down the	size of angle <i>x</i> .			
(b) Give a reason for your answer.			(1)	
				(1)
(c) Write down the	size of angle <i>y</i> .			• (1)
(d) Give a reason fo	or your answer.			
		(Te	otal for quest	(1) tion 1 is 4 mar
		(<u> </u>	





ABCD is a parallelogram. CBE is a straight line. Angle $BAD = 128^{\circ}$ Angle $AEB = 39^{\circ}$

4

Find the size of angle *BAE*. Give a reason for each stage of your working.

(Total for question 4 is 3 marks)

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AB and *CD* are parallel lines. *EFG* is an isosceles triangle

Angle $AEG = 110^{\circ}$

Find the size of angle *FGD*. Give a reason for each stage of your working.

(Total for question 5 is 3 marks)

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AB and *CD* are parallel. Angle $HIK = 85^{\circ}$ Angle $BFH = 32^{\circ}$

Find the size of angle *FEG*. You must show how you got your answer.

(Total for question 6 is 3 marks)

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Find the size of angle *x*. Give a reason for each stage of your working.

(Total for question 7 is 4 marks)

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7

8



ABCD is a parallelogram.

Angle $DAE = 63^{\circ}$ Angle $BCD = 124^{\circ}$ Angle $CBD = 25^{\circ}$

Calculate the size of angle *x*. Give reasons for each stage of your answer.

(Total for question 8 is 3 marks)

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