Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Parallel Line Angles

Calculator Allowed

INSTRUCTIONS TO CANDIDATES

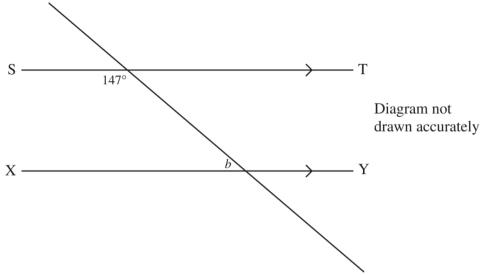
Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.



ST and XY are parallel lines. Calculate the size of angle b.

Answer
$$b = ___^{\circ} [1]$$

2) Lines AB, CD and EF are parallel.

Angles of 96° and 60° are marked in the diagram as shown.

Calculate the size of the angles marked x, y and z.

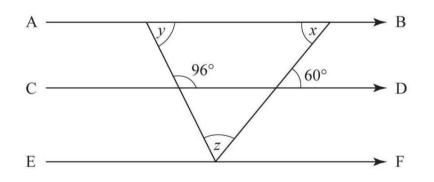


diagram not drawn accurately

Answer Angle $x = ___^{\circ} [1]$

Angle $y = _{--}^{\circ} [1]$

Angle $z = ___^{\circ} [1]$

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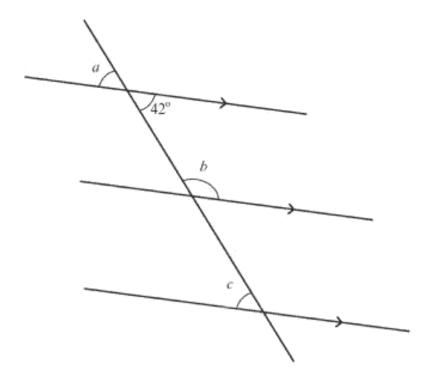


Diagram not drawn to scale

Find the size of each of the angles a, b and c.

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$$a =$$
 $b =$ $c =$

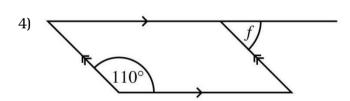


Diagram not drawn accurately

Calculate the angle f

Answer _____° [2]

[2]

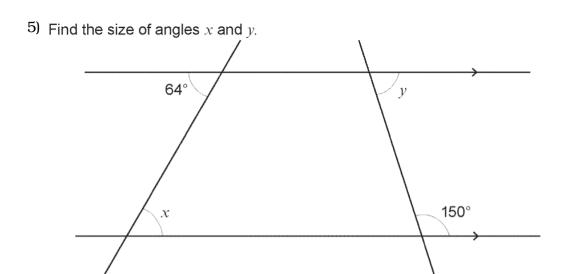


Diagram not drawn to scale

6)

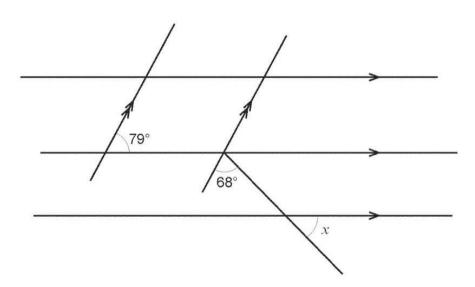


Diagram not drawn to scale

Calculate the size of the angle x . You must show your working below or on the diagram.	[3]

x = °

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7) Find the size of the angles q, r, s and t.

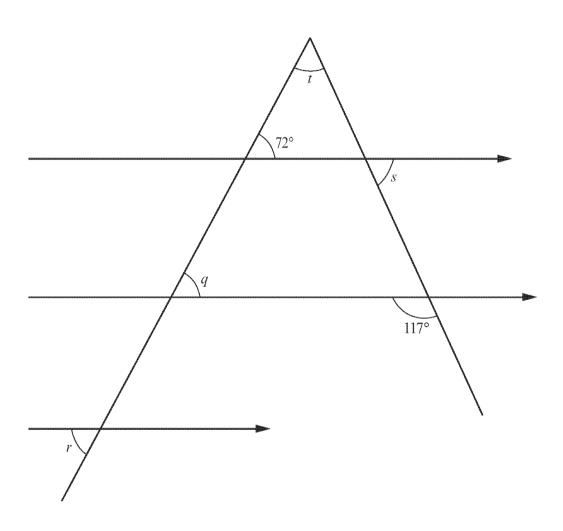


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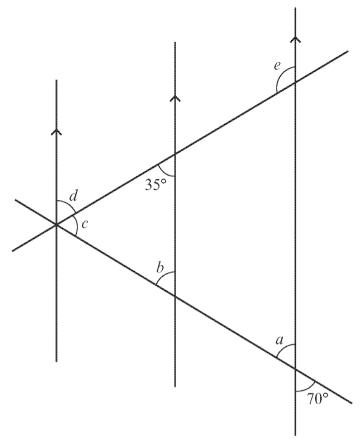


Diagram not drawn to scale

Find the size of the angles marked a ,	<i>b</i> , <i>c</i> , <i>d</i> and <i>e</i> .	
	<i>a</i> =	•
	<i>b</i> =	0
	c =	0
	<i>d</i> =	o

9) In the following diagram, AB and CD are parallel, and EF = EG. CFE is a straight line. $F\widehat{C}G = 32^{\circ}$ and $B\widehat{E}G = 110^{\circ}$. Find the size of $E\widehat{F}G$.

[4]

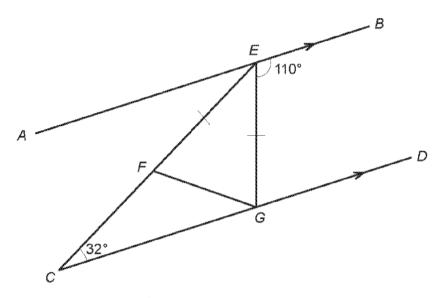
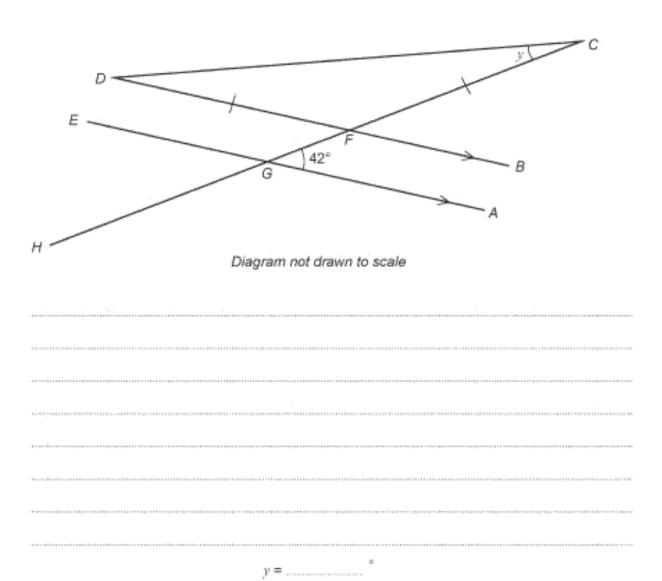


Diagram not drawn to scale

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10) In the following diagram, lines DB and EA are parallel and CDF is an isosceles triangle. Find the size of angle ν .

[3]



11) **(a)**

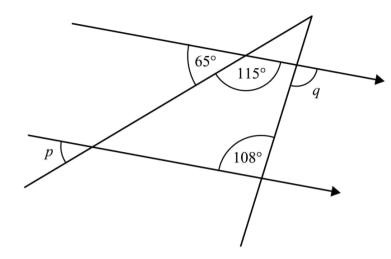


Diagram not drawn accurately

Calculate

(i) angle p

Answer _____° [1]

(ii) angle q

Answer _____° [1]

(b)

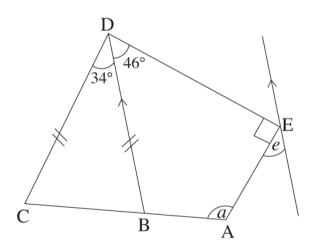
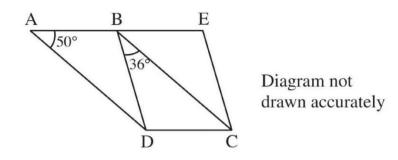


Diagram not drawn accurately

The line through E is parallel to BD. Calculate the size of the angle e.

Answer $e = ___^{\circ} [2]$

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ABCD and BECD are parallelograms. Find, giving reasons for your answers, the size of

		•		
(a)	the angle EBC			
	Answer	_° because _	1	[1]
(b)	the angle BEC			
	Answer	_° because .		
				[3]

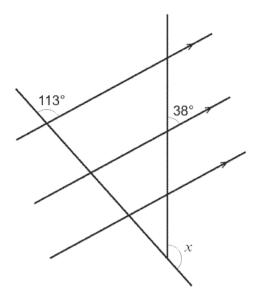


Diagram not drawn to scale

	••••
x =°	

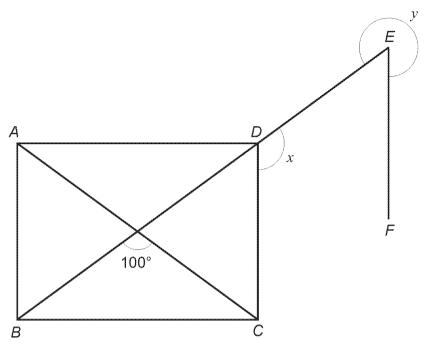


Diagram not drawn to scale

ABCD is a rectangle. CD is parallel to FE.

Calculate the size of angles x and y . It may help to show your working on the diagram.											
•••	0 0										
	$x = \dots \qquad y = \dots$										

In the diagram, angles $a,\,b$ and c are measured in degrees.

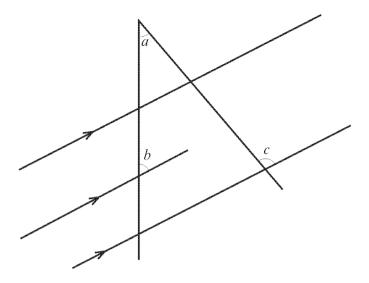


Diagram not drawn to scale

Find the size of angle c in terms of a and b . You must show all your working, which may be indicated on the diagram.	[3]
