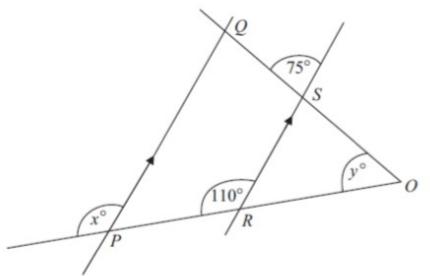
Question 7

Diagram NOT accurately drawn



PQ is parallel to RS.

OSQ and ORP are straight lines.

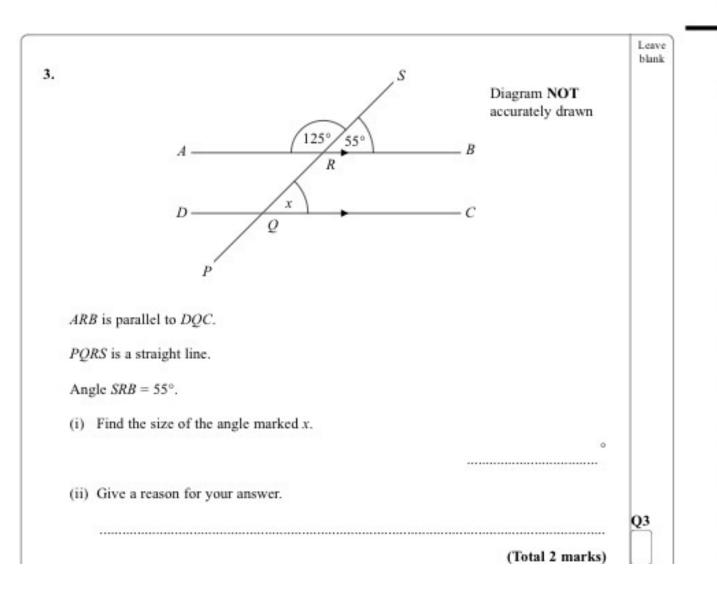
(a) (i) Write down the value of x.

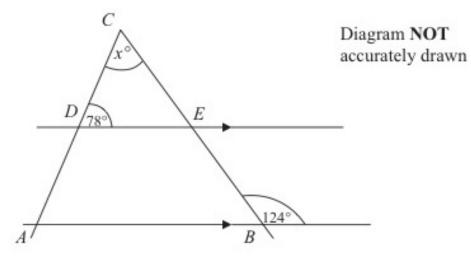
x =	

(ii) Give a reason for your answer.

(2)

(b) Work out the value of y.





ABC is a triangle.

DE is a straight line parallel to AB.

Work out the value of x.

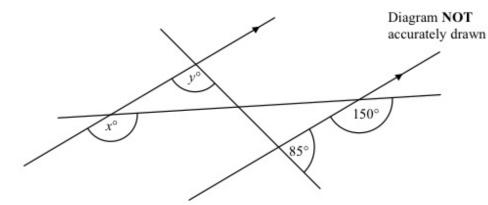
	(2)
Give reasons for your answer.	
	(1)

(Total 3 marks)

Q4

.......

4.



(a) Find the value of x.

(1)

(b) Find the value of y. Give reasons for your answer.

(2)

(Total 3 marks)

) Q4

Leave blank

Leave blank 3. Diagram NOT accurately drawn RPQR is a straight line. PT = PQ. (i) Work out the value of y. (ii) Give reasons for your answer. (Total 4 marks)

*6

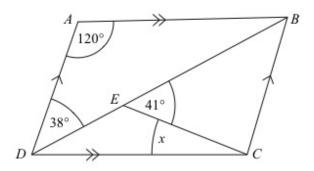


Diagram NOT accurately drawn

ABCD is a parallelogram.

Angle $ADB = 38^{\circ}$.

Angle $BEC = 41^{\circ}$.

Angle $DAB = 120^{\circ}$.

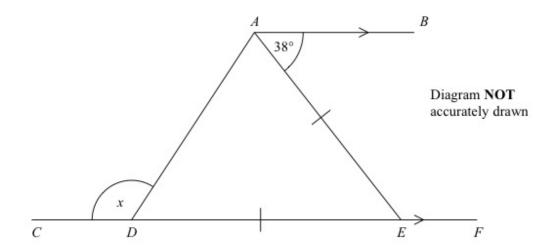
Calculate the size of angle x.

You must give reasons for your answer.

(Total for Question 6 is 4 marks)

Leave blank 5. Diagram NOT accurately drawn ANB is parallel to CMD. LNM is a straight line. Angle $LMD = 68^{\circ}$ (i) Work out the size of the angle marked y. (ii) Give reasons for your answer. (Total 3 marks) **6.** (a) Use your calculator to work out $\frac{2}{1.5 + 2.45}$ Write down all the figures on your calculator display. You must give your answer as a decimal.

*10



CDEF is a straight line. AB is parallel to CF. DE = AE.

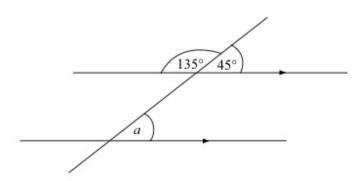
Work out the size of the angle marked *x*. You must give reasons for your answer.

(Total for Question 10 is 4 marks)

6.

Leave blank

Diagram NOT accurately drawn



(i) Write down the size of the angle marked a.

(ii) Give a reason for your answer.

•

Q6

(Total 2 marks)

7. A circle has a radius of 5 cm.

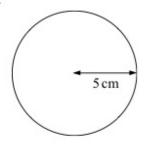


Diagram NOT accurately drawn

Work out the area of the circle.

Give your answer correct to 3 significant figures.

..... cm

Q7

(Total 2 marks)

Write your answers in the spaces provided.

You must write down all stages in your working.

1

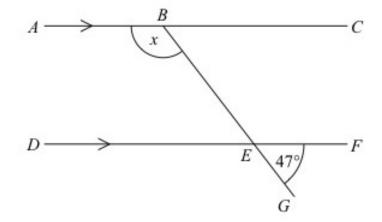


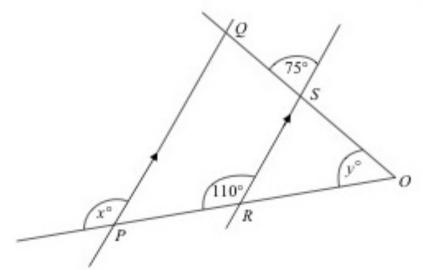
Diagram NOT accurately drawn

ABC and DEF are parallel lines. BEG is a straight line. Angle $GEF = 47^{\circ}$.

Work out the size of the angle marked x. Give reasons for your answer.

0

Diagram NOT accurately drawn



PQ is parallel to RS.

OSQ and ORP are straight lines.

(a) (i) Write down the value of x.

x =

(ii) Give a reason for your answer.

(2)

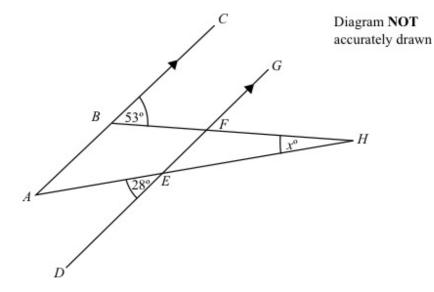
(b) Work out the value of y.

y =(2)

(Total 4 marks)

Diagram NOT accurately drawn ABC is a triangle. DE is a straight line parallel to AB. Work out the value of x. (2) Give reasons for your answer. (1) Q4 (Total 3 marks)		
ABC is a triangle. DE is a straight line parallel to AB. Work out the value of x. (2) Give reasons for your answer.	$D/78^{\circ}$	accurately drawn
(2) Give reasons for your answer. (1) Q4	ABC is a triangle.	
Give reasons for your answer. (1) Q4	Work out the value of x.	
Give reasons for your answer. (1) Q4		
(1) Q4	Give reasons for your answer.	
LIDIAL 3 III ALKAL		

5



ABC and DEFG are parallel.
AEH and BFH are straight lines.

Work out the size of the angle marked x° .

(Total for Question 5 is 3 marks)

6 (a) Solve
$$5x + 2 = 2x + 17$$

(2)

x =

(b) Solve the inequality 3(2y + 1) > 10

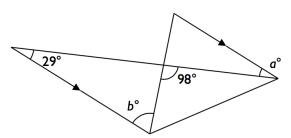
(2)

(Total for Question 6 is 4 marks)

Leave blank 10. DDiagram NOT accurately drawn 48° ABCD is a rhombus. BCE is an isosceles triangle. ABE is a straight line. Work out the size of angle DCA. Q10 (Total 3 marks)



12. Find the value of a and b.



[2]