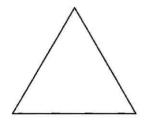
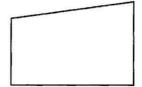
## Angles in parallel lines exam questions

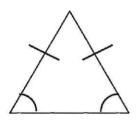




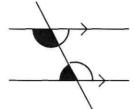
Angles in a **triangle** equal 180°



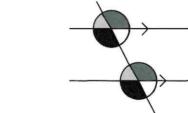
Angles in a quadrilateral equal 360°



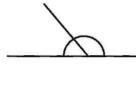
Base angles in an isosceles triangle are equal



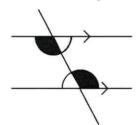
C-shape **co-interior** angles add up to 180°



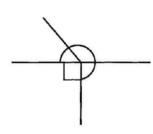
F-shaped corresponding angles are equal



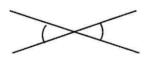
Angles on a straight line equal 180°



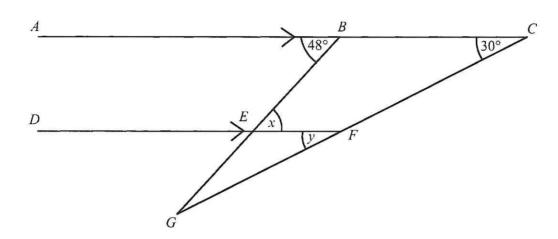
Z-shaped alternate angles are equal



Angles around a point equal 360°



Vertically opposite angles are equal



BEG and CFG are straight lines. ABC is parallel to DEF. Angle ABE = 48°. Angle BCF = 30°.

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

x = ...48...°

(ii) Give a reason for your answer.

Alternate angles are equal

(2)

(b) (i) Write down the size of the angle marked y.

y = ....30....°

(ii) Give a reason for your answer.

Corresponding angles are equal

(2) (Total 4 marks)

2.

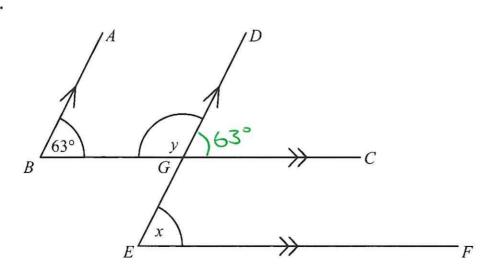


Diagram **NOT** accurately drawn

<i>BA</i> is pa	rallel to <i>EGD</i> . <i>BGC</i> is parallel to <i>EF</i> . Angle <i>ABC</i> = 63°.			
(a) (i)	Find the size of angle x.			
	63°			
(ii)	Give a reason for your answer.			
	Corresponding angles are equal			
	T (0)			
(2)				
(a) vvo	rk out the size of angle y.			
	(1)			
	(Total 3 marks)			
	Diagram NOT accurately drawn  B  B  Diagram NOT accurately drawn			

AB is parallel to CD.

3.

(i) Write down the value of y.

58°

(ii) Give a reason for your answer.

Altonote angles are equal

(Total 2 marks)

4.

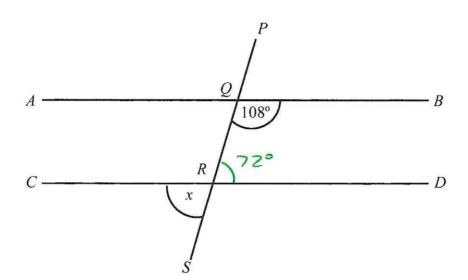


Diagram **NOT** accurately drawn

AB is parallel to CD.

Explain why angle x is 72°.

opposite angles are	equal	***************************************	 	
				(Total 2 marks)

5.

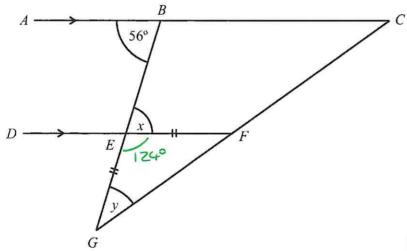


Diagram NOT accurately drawn

BEG and CFG are straight lines. ABC is parallel to DEF. Angle ABE = 56°. EF = EG

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

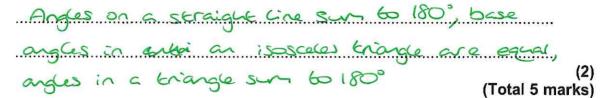
x = ....56...°

(ii) Give a reason for your answer.

Alterrate angles are equal

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

(ii) Give a reason for your answer.



6.

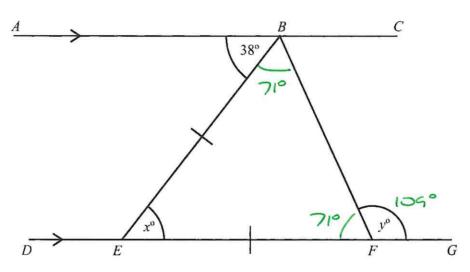


Diagram NOT accurately drawn

ABC is parallel to DEFG. BE = EF.

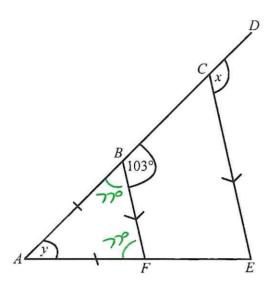
Angle ABE = 38°.

(a) (i) Find the value of x.

(ii) Give a reason for your answer.

(b) Work out the value of y.

Diagram **NOT** accurately drawn



ABCD and AFE are straight lines. BF is parallel to CE. Angle CBF = 103°. AB = AF.

(a) (i) Find the size of angle x.

103 .

(ii) Give a reason for your answer.

Corresponding angles are equal

(2)

(b) Find the size of angle y.

26 .

(Total 4 marks)

8.

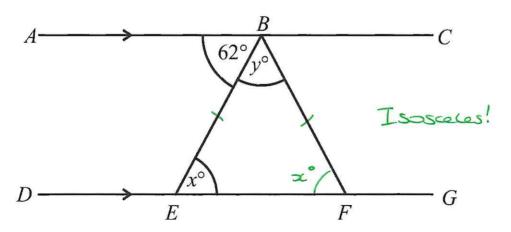


Diagram NOT accurately drawn

ABC and DEFG are straight lines. AC is parallel to DG. BE = BF. Angle ABE = 62°.

(a) (i) Find the value of x.

x= 62°

(ii) Give a reason for your answer.

Alternate anges are equal

(2)

(b) Work out the value of y.

y = .....56°

(Total 4 marks)

9.

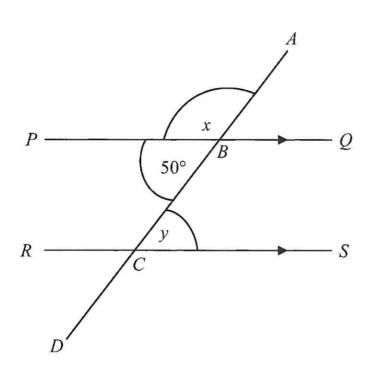


Diagram NOT accurately drawn

ABCD is a straight line. PQ is parallel to RS.

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

130 .

(ii) Give a reason for your answer.

Angles on a straight line sum to 180°

.....

(b)	(i)	Write down the size of the angle marked y.
		50
	(ii)	Give a reason for your answer.
		Alternate angles are equal
		1a.
		(2)
		(Total 4 marks)