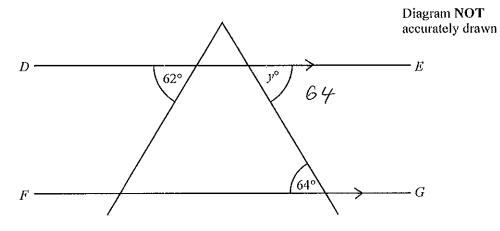


ABC and DEF are parallel lines. BEG is a straight line. Angle $GEF = 47^{\circ}$.

Work out the size of the angle marked x.

Give reasons for your answer.

	133
(3 marks)	

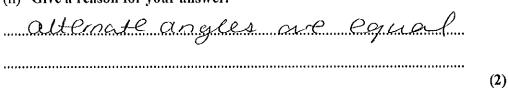


DE is parallel to FG.

(i) Find the size of the angle marked y° .

<u>64</u>.....

(ii) Give a reason for your answer.



(3 marks)

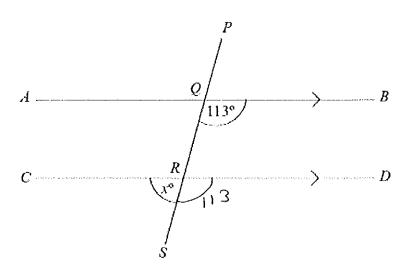


Diagram NOT accurately drawn

AQB, CRD and PQRS are straight lines.

AB is parallel to CD.

Angle $BQR = 113^{\circ}$.

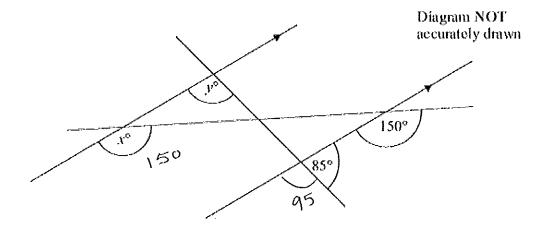
(a) Work out the value of x.

x= 67

(b) Give reasons for your answer.

Corres ponding angles are equal ongles on a straight line add up to 150°

(4 marks)



(a) i) Find the value of x.

150

ii) Give reasons for your answer.

Corres ponding angles are equal

(b) i) Find the value of y.

95° (2)

ii) Give reasons for your answer.

angles on a straight line add up to 1.

(or responding ongles are equal

(2)

(6 marks)

×5.

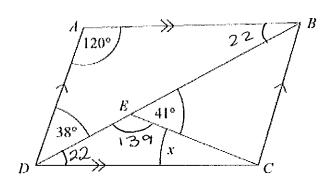


Diagram NOT accurately drawn

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.

ou must give reasons for your answer.

$$ABP = 22^{\circ}$$
 (Angles in a triangle add up to 180°)

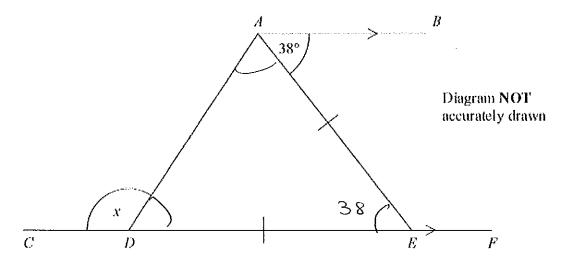
 $BDC = 22^{\circ}$ (Attenute angles are equal)

 $CED = 139^{\circ}$ (Angles on a straight line add up to 180°)

 $x = 19^{\circ}$ (Angles in a triangle add up to 180°)

(4 marks)

***6.**



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.

AÊD = 38° Alternate angles are equal

ADE and DÂE = 71° (Angles at base of isosceles are equal)

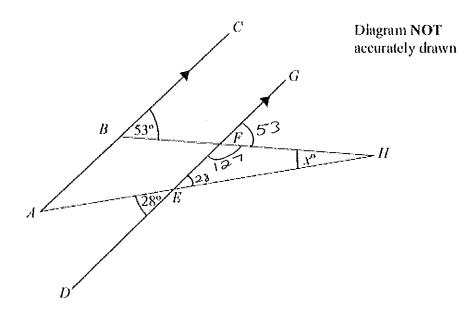
$$x = 109° (Angles on a straight line add)$$

The property of the straight line add

The property of the straight line add t

(4 marks)

***7.**



ABC and DEFG are parallel. AEH and BFH are straight lines. Work out the size of the angle marked x° .

GÉH = 28° opposite angles are equal

GÉH = 53° alternate angles are equal

EÉH = 127 angles on a straight line add

to 180°

2 = 25° angles in a triangle add to 180°

 25	
	(3 mårks)