

Diagram **NOT** accurately drawn

PQ is a straight line.

(a) Work out the size of the angle marked x° .

54° (1)

(b) (i) Work out the size of the angle marked y° .

72 .

(ii) Give reasons for your answer.

PQ is of raight line so the angle in straight line

is 100 and in triangle oretside angle is except to the sum of the opposite side of angle of that angle.

(3) (4 marks)

2.

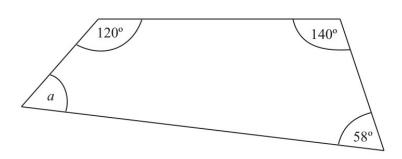


Diagram **NOT** accurately drawn

Work out the size of the angle a.

42' .

(2 marks)

3.

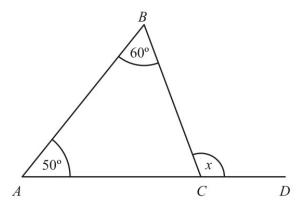


Diagram NOT accurately drawn

In the diagram, ABC is a triangle.

ACD is a straight line.

Angle $CAB = 50^{\circ}$.

Angle $ABC = 60^{\circ}$.

Work out the size of the angle marked x.



4.

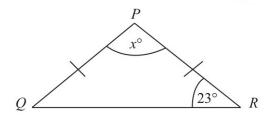


Diagram NOT accurately drawn

PQR is an isosceles triangle.

PQ = PR.

Angle $R = 23^{\circ}$.

Work out the value of *x*.

x = 134

(2 marks)

(2 marks)

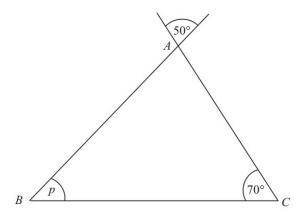


Diagram NOT accurately drawn

ABC is a triangle.

Work out the size of the angle marked p.

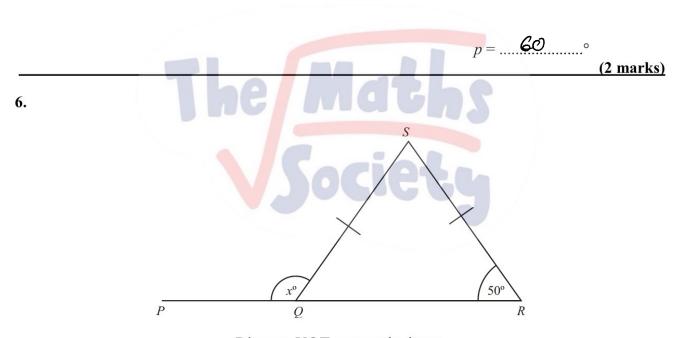


Diagram NOT accurately drawn

PQR is a straight line. SQ = SR.

(i) Work out the size of the angle marked x°

				I,	2	3	(Ċ)							0	

(ii) Give reasons for your answer.

ARR is issoceles and straight line has 180

(3 marks)

7.

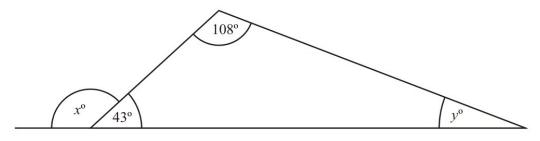


Diagram NOT accurately drawn

(a) Work out the value of x.

$$x = 13.7...$$
 (1)

(b) Work out the value of y.



(2) (3 marks)

8.

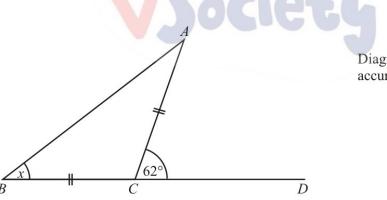


Diagram **NOT** accurately drawn

Triangle ABC is isosceles, with AC = BC.

Angle $ACD = 62^{\circ}$.

BCD is a straight line.

Work out the size of angle x.

$$x = \frac{\mathcal{S}}{0}$$

(2 marks)

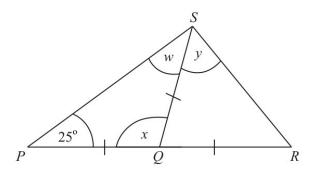


Diagram NOT accurately drawn

PQR is a straight line.

$$PQ = QS = QR$$
.

Angle $SPQ = 25^{\circ}$.

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

25

(ii) Work out the size of angle x.

130

(b) Work out the size of angle y.

65.....

(2) (4 marks)

(2)

10.

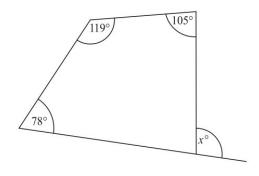
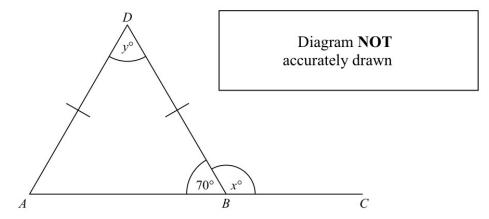


Diagram **NOT** accurately drawn

Work out the value of *x*.

x = 122

(3 marks)



ABD is a triangle. ABC is a straight line.

Angle $ABD = 70^{\circ}$.

AD = BD.

(a) (i) Work out the value of x.

Give a reason for your answer. (ii)

> ABC is straight line which has 150 **(2)**

Work out the value of y. (b) (i)

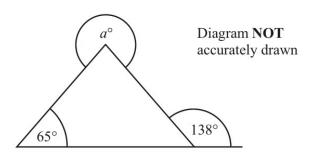
(ii) Give a reason for your answer.

AABD is is socoles so the two angle

(3)

(5 marks)

12.



Work out the value of a.

$$a = 267$$

(3 marks)

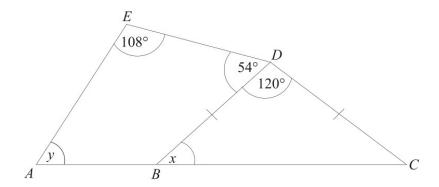
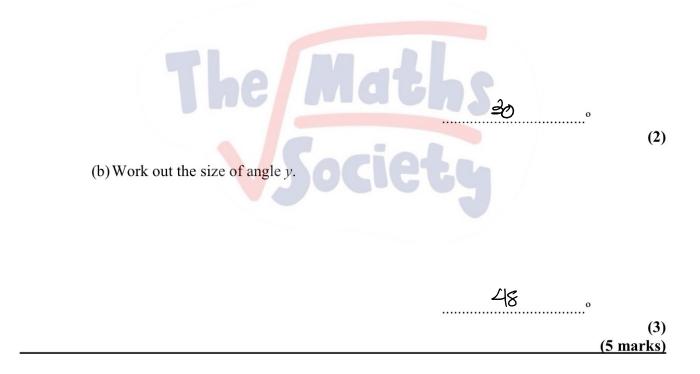


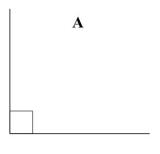
Diagram NOT accurately drawn

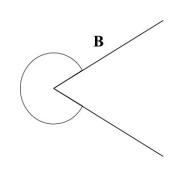
In the diagram, ABC is a straight line and BD = CD.

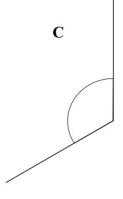
(a) Work out the size of angle x.

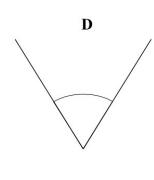


1 Here are four angles A, B, C and D.









- (a) Measure the size of angle C.
- (b) Match the angle mathematical name to the angle.

Mathematical Name	Angl
Acute Angle	1
Obtus <mark>e</mark> Angle	C
Right Angle	A
Ref <mark>le</mark> x Angle	B

(Total for question 7 is 3 marks)

In the space below draw an angle of 60° Label the angle A.

,

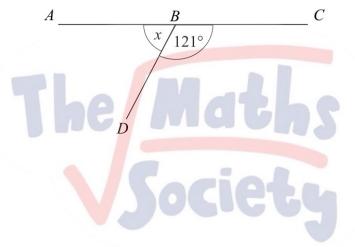
(Total for question 2 is 1 mark)

3	In the space below draw an angle of 110°
	Label the angle B .

(Total for question 3 is 1 mark)

Diagrams are NOT accurately drawn, unless otherwise indicated.

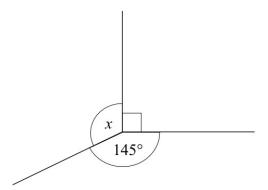
4 ABC is a straight line. Work out the size of the angle marked x.



59

(Total for question 4 is 2 marks)

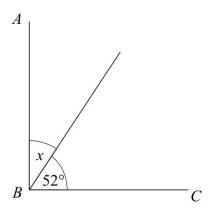
5 Work out the size of the angle marked x.



125

(Total for question 5 is 2 marks)

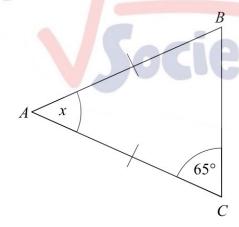
6 AB and BC are perpendicular lines. Work out the size of the angle marked x.



38

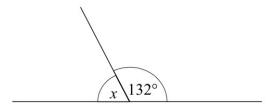
(Total for question 6 is 2 marks)

7 ABC is an isosceles triangle Work out the size of the angle marked x.



50

(Total for question 7 is 2 marks)



(a) Work out the size of the angle marked x.

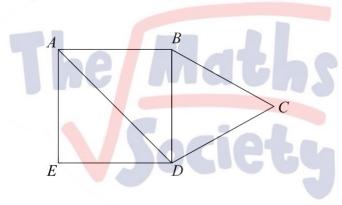
48

(b) Give a reason for your answer.

Straight line has 180.

(Total for question 8 is 2 marks)

The diagram shows a square ABDE and an equilateral triangle BCD.



(a) Write down the size of angle ABD

(b) Write down the size of angle BCD

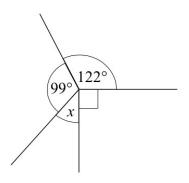
6

90

(c) Find the size of angle ADC

65

(Total for question 9 is 4 marks)



(a) Work out the size of the angle marked x.

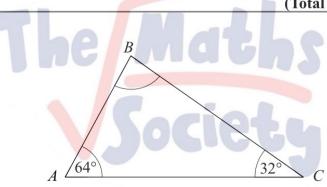
(b) Give a reason for your answer.

49

The ashale circle has 360.

(Total for question 10 is 2 marks)

11



(a) Work out the size of the angle ABC.

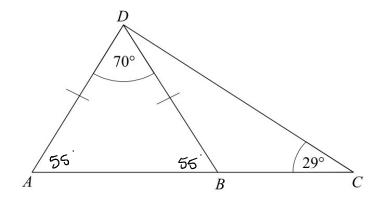
(b) Give a reason for your answer.

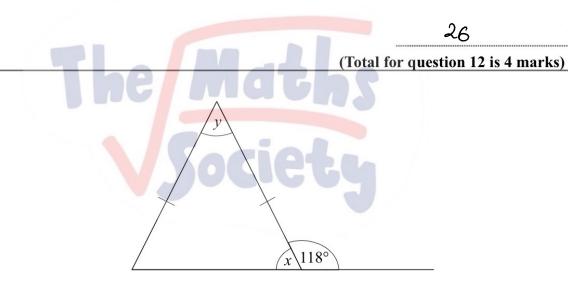
84

Tolongle has 180

(Total for question 11 is 2 marks)

12 ABC is a straight line. Work out the size of the angle BDC.





(a) Work out the size of the angle marked x.

62 °

(b) Work out the size of the angle marked y.

56 °

(c) Give reasons for your answer.

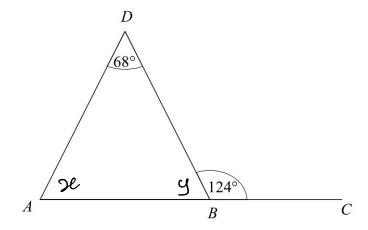
13

the angle in orthalpht line

is 100 and in triangle outside angle is equal to the sun of the opposite side of angle of that angle.

(Total for question 13 is 3 marks)

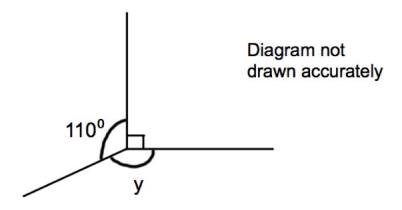
14 ABC is a straight line.



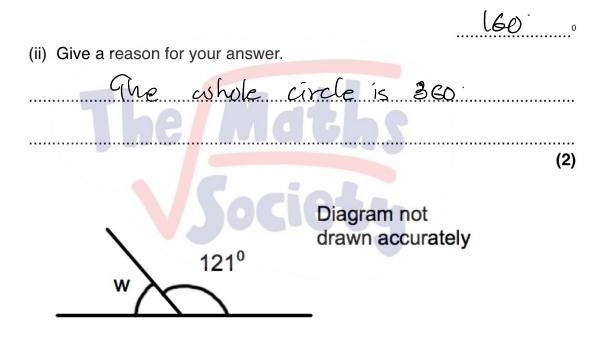
Show that ABD is an isosceles triangle

$$y = (60 - 12A = 56)$$
 $2e + 68 = 12A$
 $2e = 12A - 68 = 56$
 $30, x = 9$
 $AD = BD$
 $AD = BD$
 $AD = BD$

(Total for question 14 is 4 marks)



(a) (i) Work out the size of the angle marked y.



(b) (i) Work out the size of the angle marked w.

	59
(ii) Give a reason for your answer.	
Angle in stroight (Sne is	182
	(2)

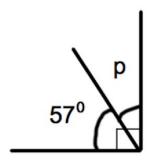
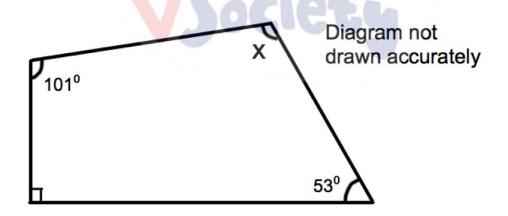


Diagram not drawn accurately

(c) (i) Work out the size of the angle marked p.

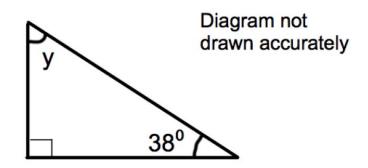
<u>9</u> 3	0
(ii) Give a reason for your answer.	
The right angle is go	
The Mathe	(2)

2. Shown below is a quadrilateral.



Work out the size of the angle marked x.

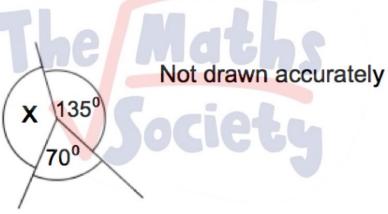
3. Shown is a right angled triangle.



Work out the size of angle y.

52 ° **(2)**

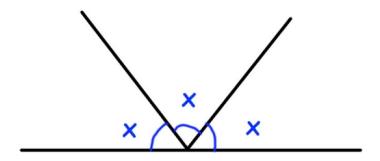
4.



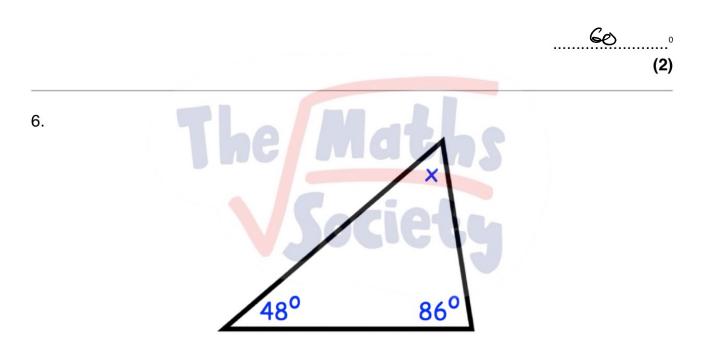
(a) Work out the size of the angle marked x.

(b) Give a reason for your answer.

		ے	5		6	-)												0	
• •	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		



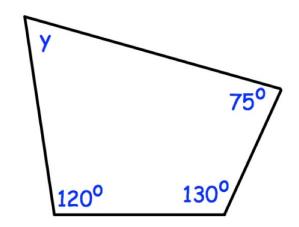
Work out the size of x.



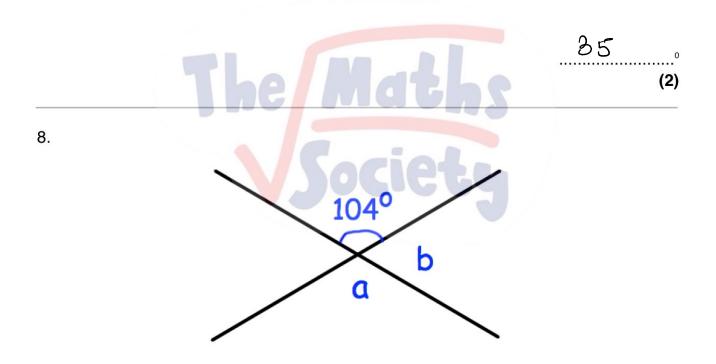
Work out the size of angle x.

____4₆ ____ (2)

7. Shown below is a quadrilateral.



Work out the size of angle y.

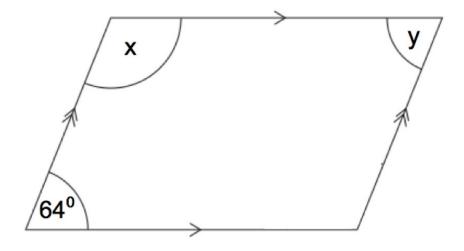


(a) Work out the size of angle a.

64	0
	(1)

(a) Work out the size of angle b.

9.



The diagram above shows a parallelogram.

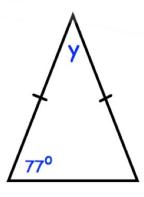
(a) Work out the size of the angle marked x.

116	0

(b) Work out the size of the angle marked y.

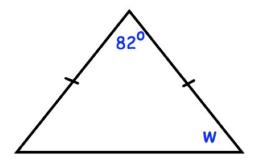
						200		6	\ D	_	_	1						C
•	•	•	•	•	•	•	•	•	•	•	•		•	•	((2)

10. Shown below is an isosceles triangle.

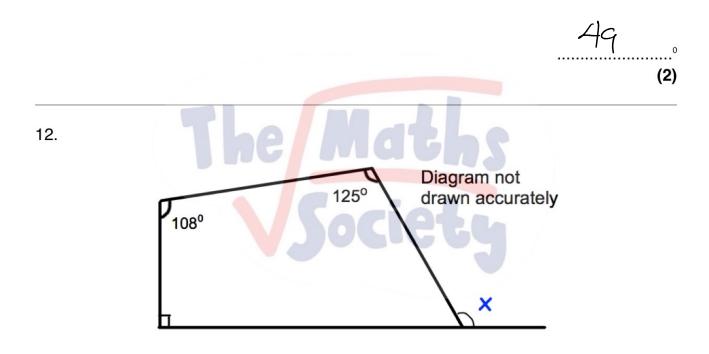


Work out the size of the angle marked y.

11. Shown below is an isosceles triangle.

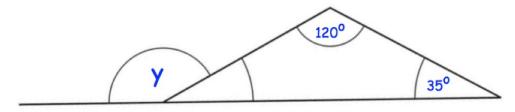


Work out the size of the angle marked w.

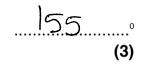


Work out the size of the angle marked x.

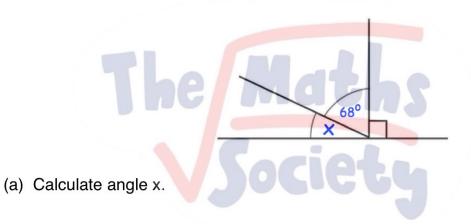
13.



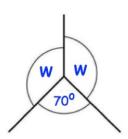
Work out the size of angle y.



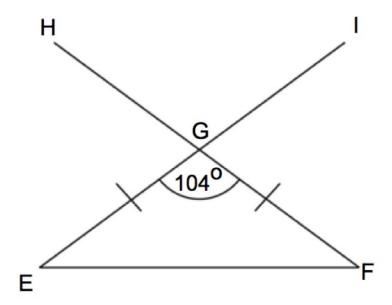
14.



____2<u>2</u>____₀

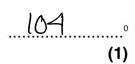


(b) Calculate angle w.



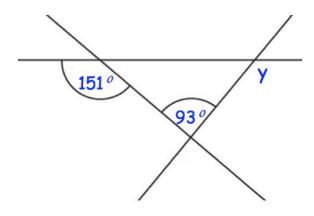
Triangle EFG is an isosceles triangle. Lines FGH and EGI are straight lines. Angle EGF is 104°.

(a) Find the size of angle HGI.



(b) Find the size of angle EFG.

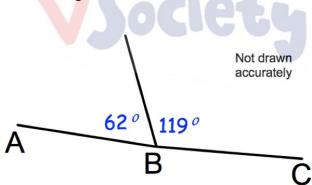
16. Below are 3 straight lines.



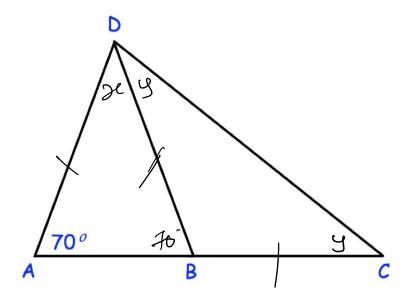
Find the size of angle y.



17. Bernard says AC is a straight line.



Is he correct? Explain your answer.



Triangles ABD and BCD are both isosceles. AD = BD

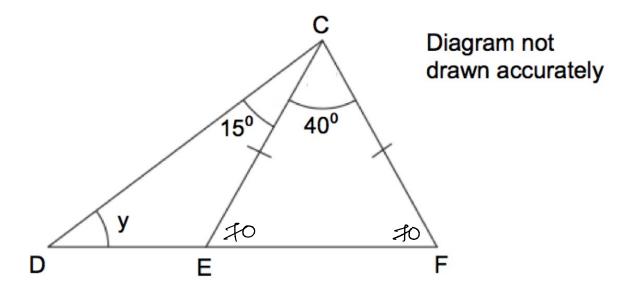
AC is a straight line.

Is ADC a right angle?
Clearly explain your answer.

$$x = (80 - 2070) = 40$$

 $y = \frac{70}{2} = 85$

So,
$$\angle ADC$$
 is not right angle. (4)



DEF is a straight line.

CE = CF.

Angle ECF is 40°.

Angle DCE is 15°.

Find the size of the angle marked y.

