

1.

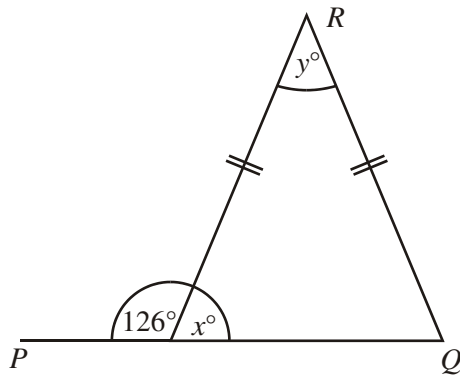


Diagram **NOT** accurately drawn

PQ is a straight line.

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

.....^o

(1)

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

.....^o

(ii) Give reasons for your answer.

.....
.....

(3)

(4 marks)

2.

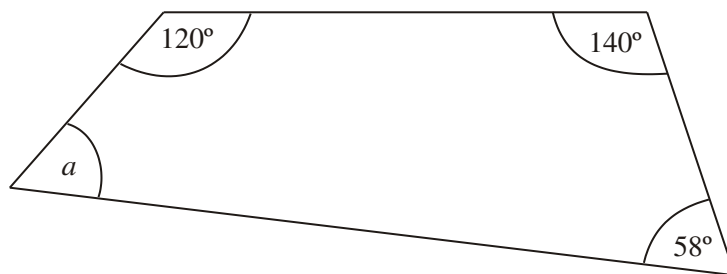


Diagram **NOT** accurately drawn

Work out the size of the angle a .

.....^o

(2 marks)

3.

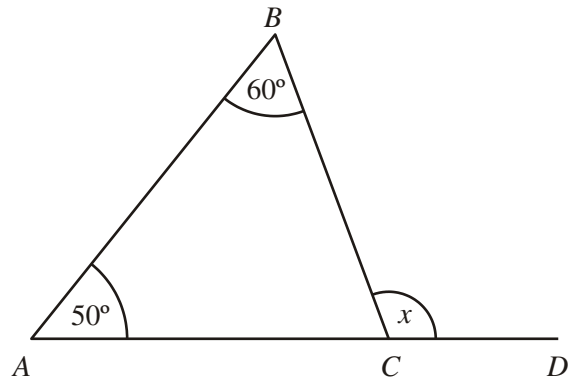


Diagram **NOT** accurately drawn

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 .

.....^o

(2 marks)

4.

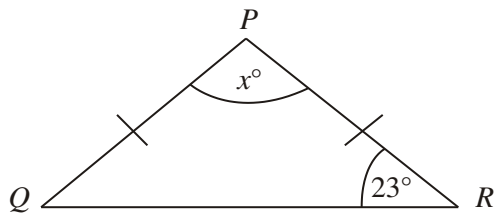


Diagram **NOT** accurately drawn

PQR is an isosceles triangle.

$PQ = PR$.

Angle $R = 23^\circ$.

Work out the value of x .

$x =$

(2 marks)

5.

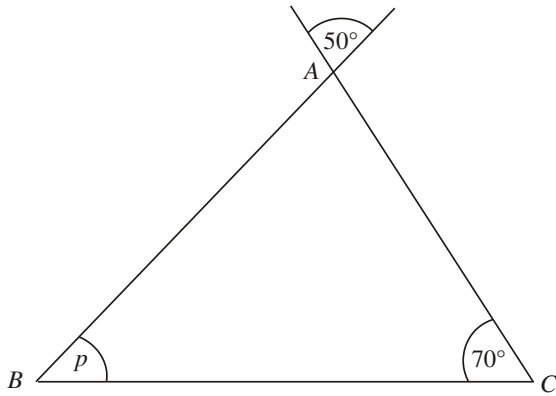


Diagram **NOT** accurately drawn

ABC is a triangle.

Work out the size of the angle marked p .

$p = \dots\dots\dots^\circ$

(2 marks)

6.

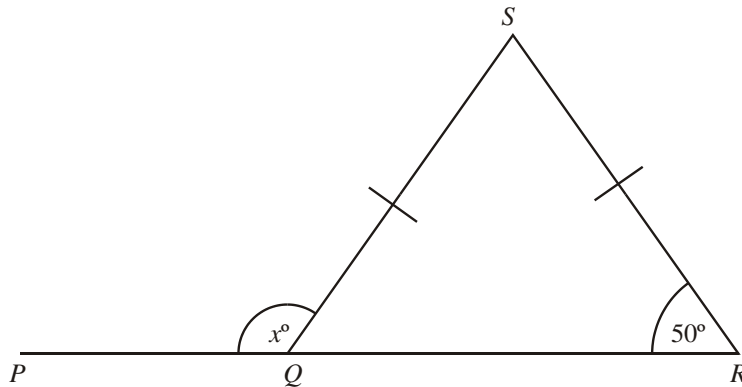


Diagram **NOT** accurately drawn

PQR is a straight line.

$SQ = SR$.

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

$\dots\dots\dots^\circ$

(ii) Give reasons for your answer.

.....
.....

(3 marks)

7.

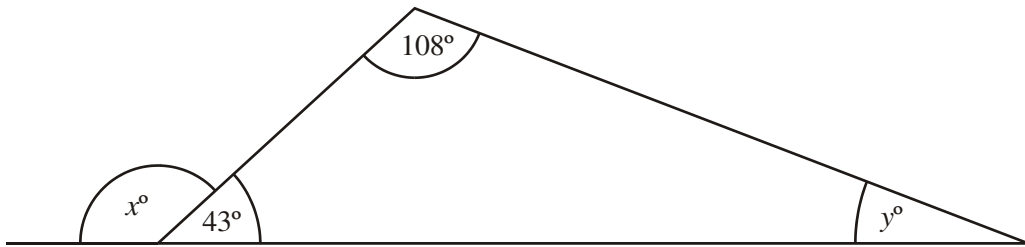


Diagram **NOT** accurately drawn

(a) Work out the value of x .

$$x = \dots\dots\dots$$

(1)

(b) Work out the value of y .

$$y = \dots\dots\dots$$

(2)

(3 marks)

8.

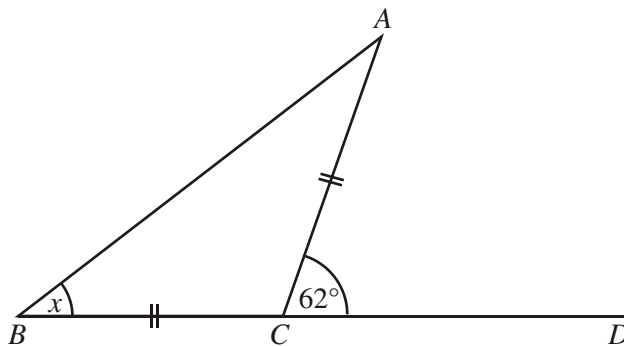


Diagram **NOT** accurately drawn

Triangle ABC is isosceles, with $AC = BC$.

Angle $ACD = 62^\circ$.

BCD is a straight line.

Work out the size of angle x .

$$x = \dots\dots\dots^\circ$$

(2 marks)

9.

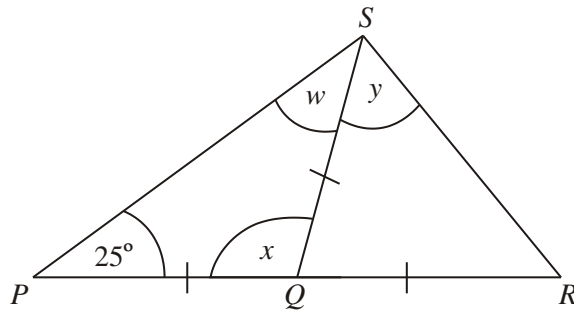


Diagram **NOT** accurately drawn

PQR is a straight line.

$PQ = QS = QR$.

Angle $SPQ = 25^\circ$.

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

.....^o

(ii) Work out the size of angle x .

.....^o

(2)

(b) Work out the size of angle y .

.....^o

(2)

(4 marks)

10.

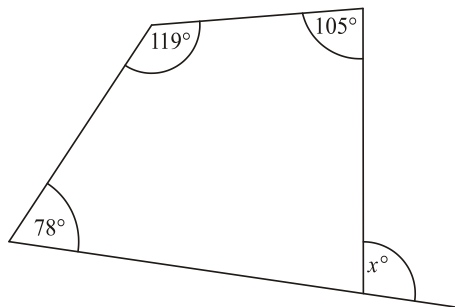


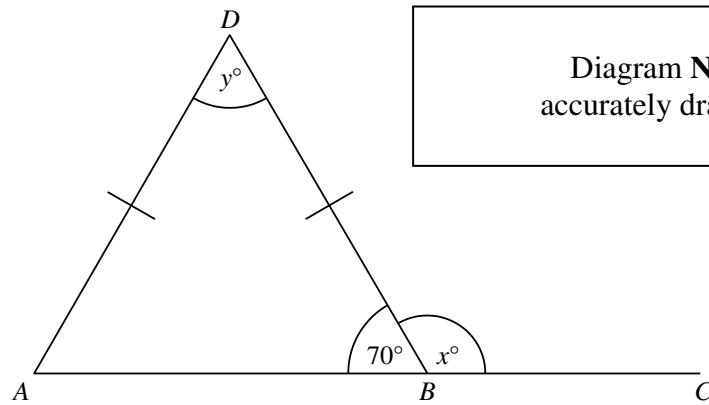
Diagram **NOT** accurately drawn

Work out the value of x .

$x =$

(3 marks)

11.



ABD is a triangle. ABC is a straight line.
 Angle $ABD = 70^\circ$.
 $AD = BD$.

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

$x = \dots\dots\dots$

(ii) Give a reason for your answer.

.....

(2)

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

$y = \dots\dots\dots$

(ii) Give a reason for your answer.

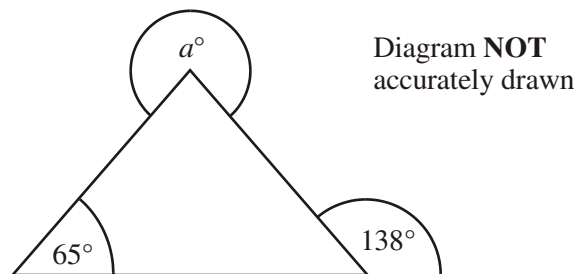
.....

.....

(3)

(5 marks)

12.



Work out the value of a .

$a = \dots\dots\dots$

(3 marks)

13.

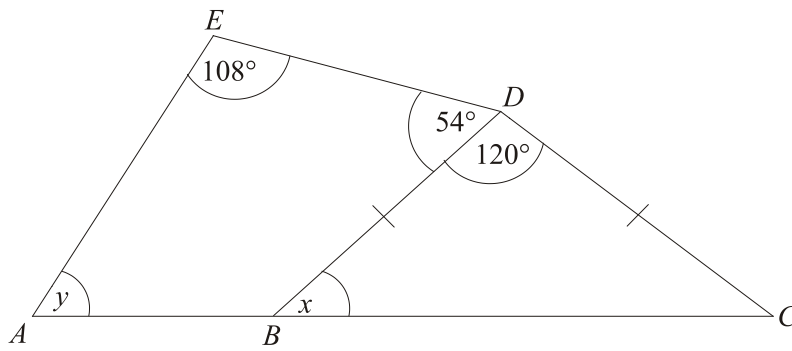


Diagram **NOT** accurately drawn

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

(a) Work out the size of angle x .

.....°

(2)

(b) Work out the size of angle y .

.....°

(3)

(5 marks)