

Diagram NOT accurately drawn

PQ is a straight line.

(a) Work out the size of the angle marked  $x^{\circ}$ .

<u>54</u>...•

(b) (i) Work out the size of the angle marked  $y^{\circ}$ .

72 .

(ii) Give reasons for your answer.

angles at the base of an isoscele, triangle are equal.

(3) (4 marks)

2.

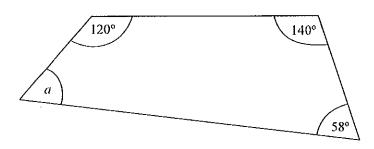


Diagram NOT accurately drawn

Work out the size of the angle a.

42...

(2 marks)

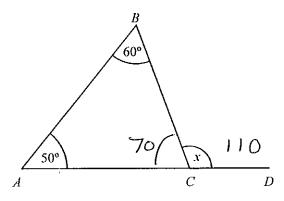


Diagram NOT accurately drawn

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.

110 °

(2 marks)

4.

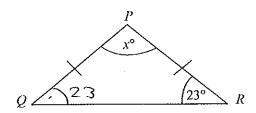


Diagram NOT accurately drawn

PQR is an isosceles triangle.

$$PQ = PR$$
.

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

Work out the value of x.

x = 134

(2 marks)

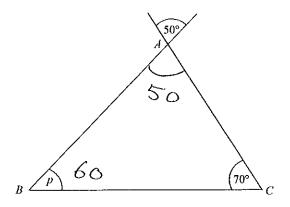


Diagram NOT accurately drawn

ABC is a triangle.

Work out the size of the angle marked p.

 $p = \dots \leftarrow \bigcirc$  (2 marks)

6.

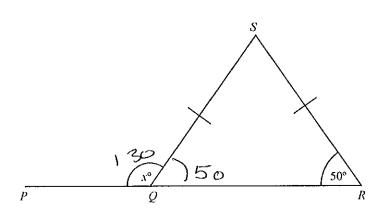


Diagram NOT accurately drawn

PQR is a straight line. SQ = SR.

(i) Work out the size of the angle marked  $x^{\circ}$ 

(ii) Give reasons for your answer.

transle one equal proles on a Straight

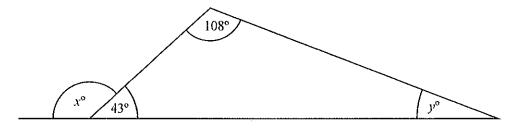


Diagram NOT accurately drawn

(a) Work out the value of x.

$$\chi = \dots \underbrace{\hspace{1cm}}_{\chi}$$
 (1)

(b) Work out the value of y.

$$y = \frac{29}{2}$$
(2)

(3 marks)

8.

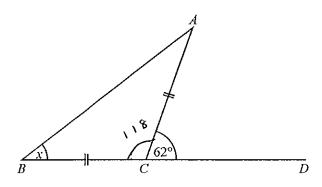


Diagram **NOT** accurately drawn

Triangle ABC is isosceles, with AC = BC.

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

BCD is a straight line.

Work out the size of angle x.

$$x = \frac{3}{3}$$

(2 marks)

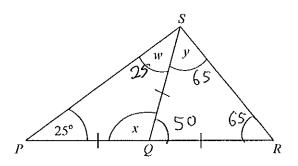


Diagram NOT accurately drawn

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 .

(2)

(b) Work out the size of angle y.

65.

(2)

(4 marks)

10.

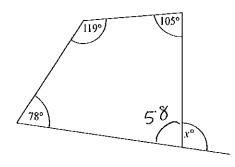
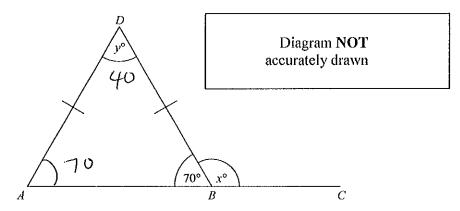


Diagram **NOT** accurately drawn

Work out the value of x.

 $x = \frac{\sqrt{2}}{\sqrt{2}}$ 

<u>(3 marks)</u>



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

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

 $\chi = \frac{1}{2} \frac{1}{2}$ 

(ii) Give a reason for your answer.

angles on a straight line add to 180° (2)

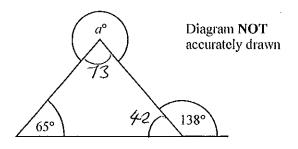
(b) (i) Work out the value of y.

y = 40

(ii) Give a reason for your answer.

angles in a tragle add up to 1500

(5) (5 marks)



Work out the value of a.

 $a = \frac{2877}{\text{(3 marks)}}$ 

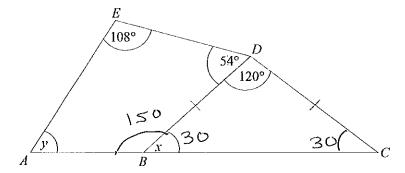


Diagram NOT accurately drawn

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

(a) Work out the size of angle x.

(2)

(b) Work out the size of angle y.

(3) (5 marks)