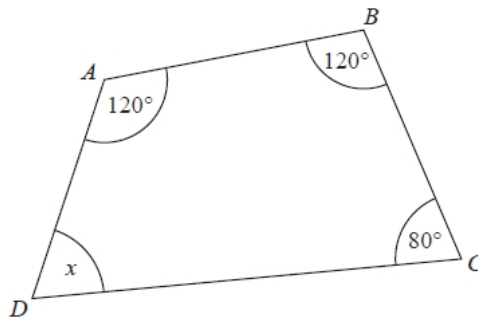


## Angles Past Paper Questions



Q1.

$ABCD$  is a quadrilateral.



(a) (i) Work out the size of angle  $x$ .

.....°

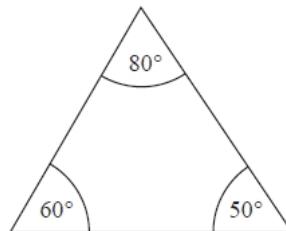
(1)

(ii) Give a reason for your answer.

.....  
.....  
.....

(1)

The diagram below shows a triangle.



The diagram is wrong.

(b) Explain why.

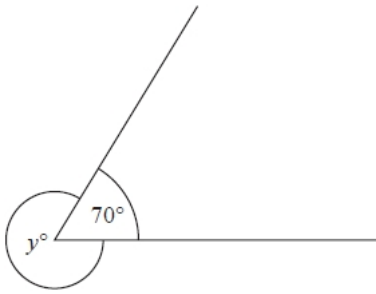
.....  
.....  
.....

(1)

**(Total for question = 3 marks)**



Q2.



(a) Find the value of  $y$ .

$y = \dots\dots\dots$

(1)

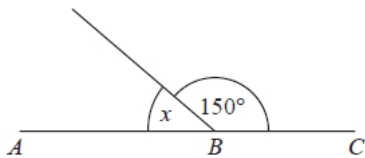
(b) Give a reason for your answer.

.....  
.....  
.....

(1)

(Total for question = 2 marks)

Q3.



$ABC$  is a straight line.

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

.....°

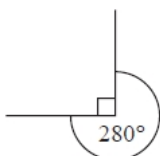
(1)

(ii) Give a reason for your answer.

.....  
.....  
.....

(1)

The diagram below is wrong.



(b) Explain why.

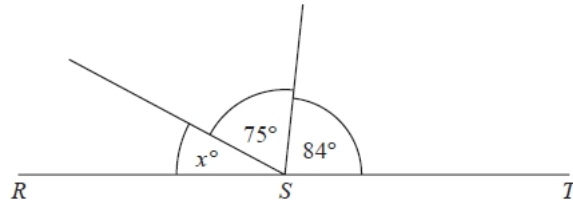
.....  
.....  
.....

(1)

(Total for question = 3 marks)



Q4.



*RST* is a straight line.

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

.....  
(2)

(ii) Give a reason for your answer.

.....  
.....  
.....  
(1)

**(Total for question = 3 marks)**

Q5.

Jenna measures all the angles around a point.

Her results are  $23^\circ$ ,  $145^\circ$ ,  $23^\circ$  and  $69^\circ$

Explain why these results cannot be true.

.....  
.....  
.....

**(Total for question = 1 mark)**



Q6.

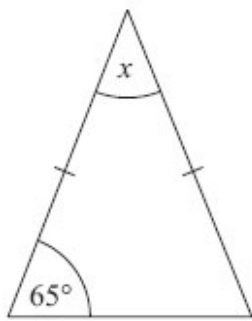


Diagram **NOT**  
accurately drawn

Work out the size of the angle marked  $x$ .  
Give reasons for your answer.

(Total for Question is 3 marks)

Q7.

\*

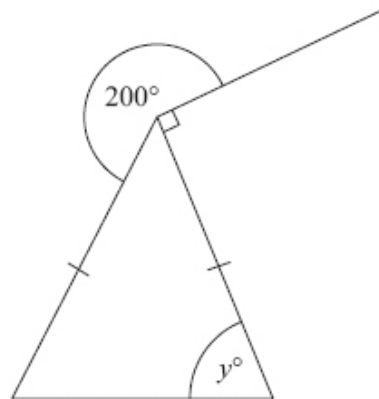


Diagram **NOT**  
accurately drawn

Work out the value of  $y$ .  
Give reasons for your answer.

(Total for Question is 4 marks)



**Q8.**

Here is an isosceles triangle.

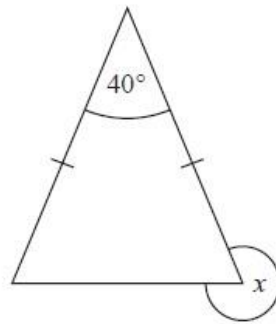


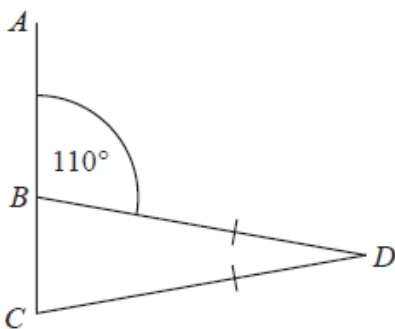
Diagram NOT  
accurately drawn

Work out the size of the angle marked  $x$ .

..... °

**(Total for Question is 3 marks)**

**Q9.**



$ABC$  is a straight line.

$BD = CD$

Angle  $ABD = 110^\circ$

Show that angle  $BDC = 40^\circ$

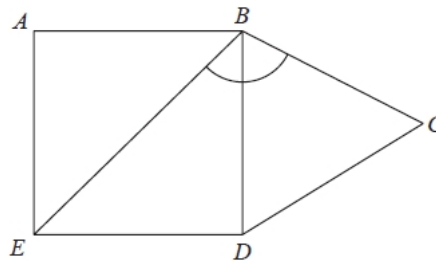
Give a reason for each stage of your working.

**(Total for question = 4 marks)**



**Q10.**

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



Work out the size of angle  $EBC$ .

..... °

**(Total for question = 2 marks)**