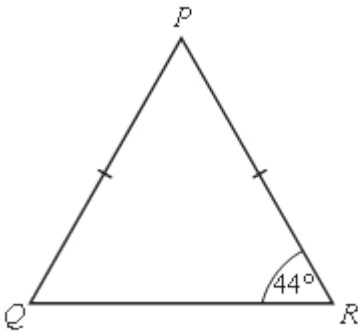


1. (a) Triangle PQR is **isosceles**.



Calculate the size of angle P .

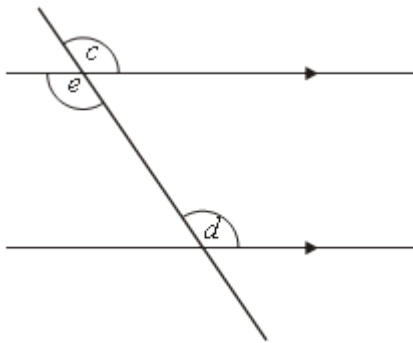
.....

Answer degrees

(2)

(b) The words in this list are used to describe angles.

alternate corresponding exterior interior opposite



Choose a word from the list to describe each of these pairs of angles.

(i) c and d are angles

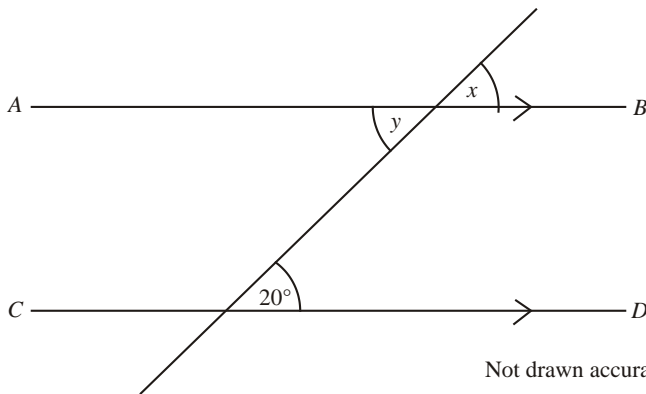
(1)

(ii) d and e are angles

(1)

(Total 4 marks)

2. The lines AB and CD are parallel.



Not drawn accurately

(a) State the value of x .

Answer $x =$ degrees

(1)

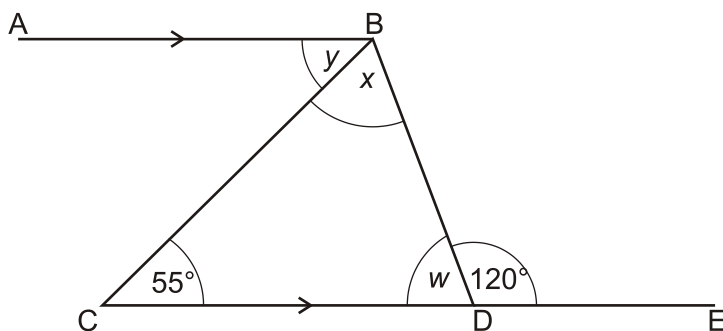
(b) Write down the value of y .

Answer $y =$ degrees

(1)

(Total 2 marks)

3. In the diagram, AB is parallel to CDE .



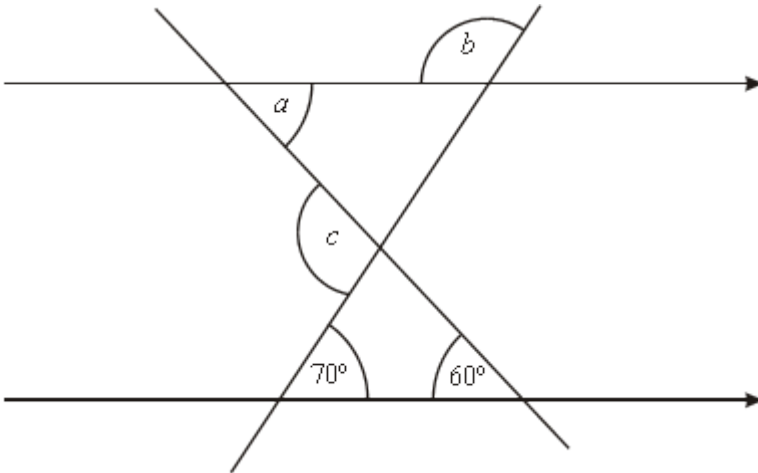
(a) Work out angle w . $w =$ ^o
 (1)

(b) Work out angle x . $x =$ ^o
 (1)

(b) Work out angle y . $y =$ ^o
 (1)

(Total 3 Marks)

4. Work out the values of a , b and c .



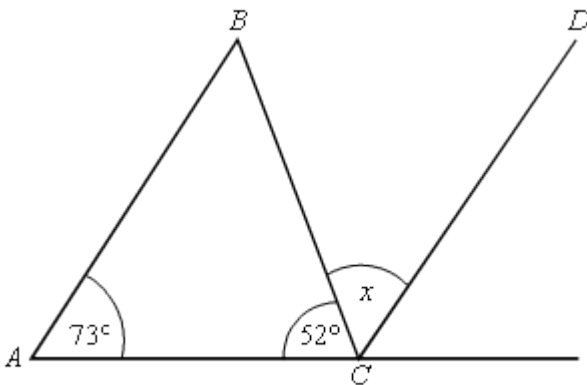
.....

Answer $a = \dots\dots\dots$ degrees
 $b = \dots\dots\dots$ degrees
 $c = \dots\dots\dots$ degrees
(Total 3 marks)

5. ABC is a triangle.

CD is parallel to AB .

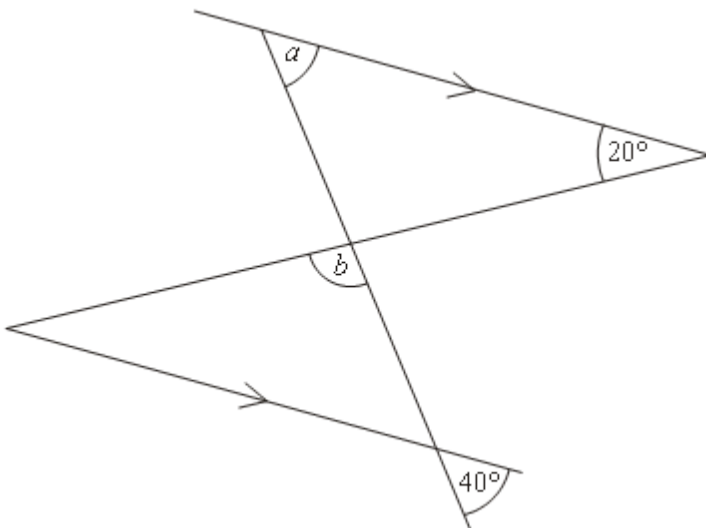
Find the value of $\angle BCD$ (marked x in the diagram).



.....

Answer $\dots\dots\dots$ degrees
(Total 3 marks)

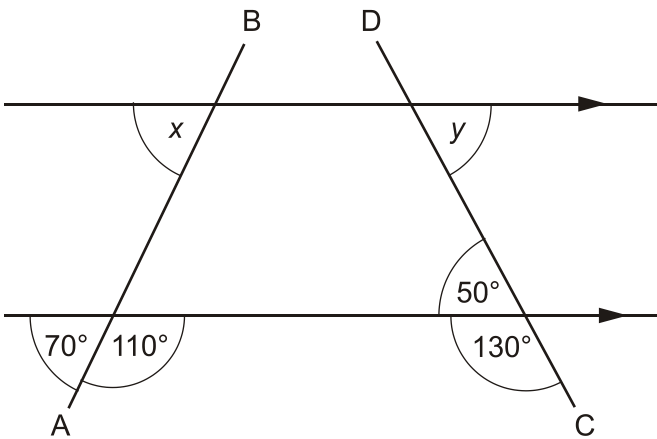
6. (a) Work out the size of angles a and b .



.....

Answer $a = \dots\dots\dots$ degrees
 $b = \dots\dots\dots$ degrees
(Total 3 marks)

7. The diagram shows the lines AB and CD cutting 2 parallel lines.



(a) Find the size of the angle marked x .
Give a reason for your answer.

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

.....
.....

(2)

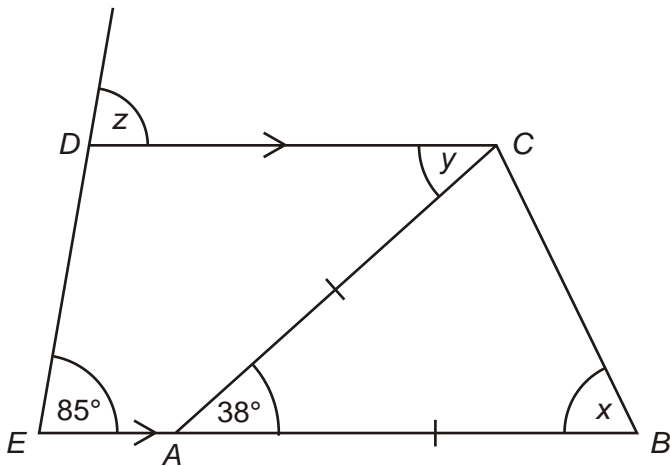
(b) Find the size of the angle marked y .
Give a reason for your answer.

$y = \dots\dots\dots^\circ$ because

(2)

(Total 4 Marks)

8. In the diagram, $AB = AC$.



(a) Work out angle x .

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

$x = \dots\dots\dots$

(2)

(b) EAB is a straight line parallel to DC .

(i) Find angle y . Give a reason for your answer.

.....
 $y = \dots\dots\dots^\circ$ because

.....
.....

(2)

(ii) Find angle z . Give a reason for your answer.

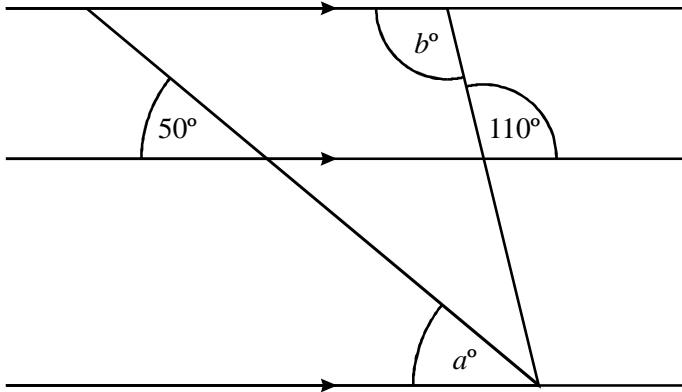
.....
 $z = \dots\dots\dots^\circ$ because

.....

(2)

Total (6 Marks)

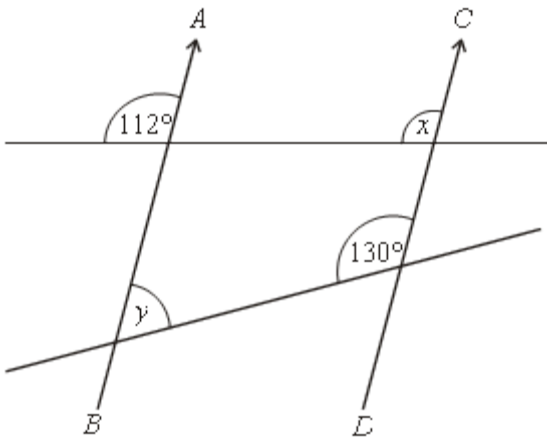
9. Write down the values of a and b .



Not drawn accurately

Answer $a = \dots\dots\dots$ degrees, $b = \dots\dots\dots$ degrees
(Total 2 marks)

10. In the diagram, AB is parallel to CD .



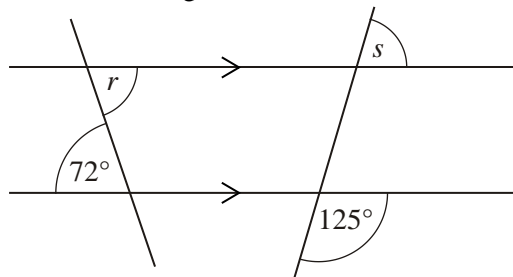
(a) State the value of x .
Give a reason for your answer.

$x = \dots\dots\dots$ degrees
because $\dots\dots\dots$
 $\dots\dots\dots$ (2)

(b) Find the value of y .
 $\dots\dots\dots$
 $\dots\dots\dots$

Answer $\dots\dots\dots$ degrees
(2)
(Total 4 marks)

11. Work out the sizes of angles r and s .



Answer $r = \dots\dots\dots$ degrees $s = \dots\dots\dots$ degrees
(2)
(Total 7 marks)