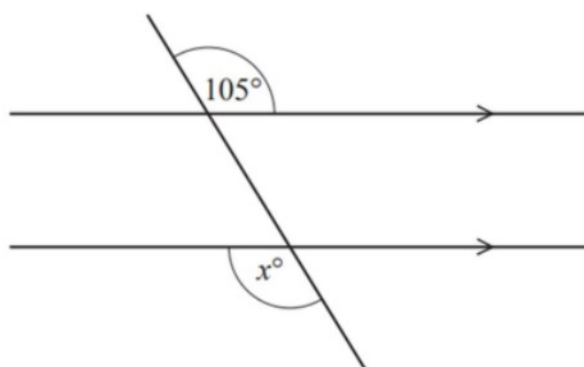


Q Angles in Parallel Lines

1



NOT TO
SCALE

The diagram shows a straight line crossing two parallel lines.

Find the value of x .

$x = \dots\dots\dots$ [1]

1



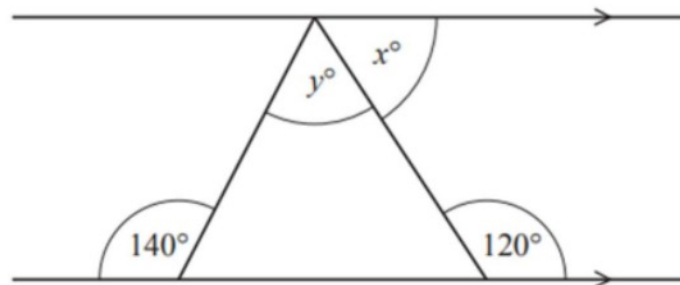
NOT TO
SCALE

The diagram shows a straight line intersecting two parallel lines.

Find the value of k and the value of m .

$k = \dots\dots\dots$

$m = \dots\dots\dots$ [2]



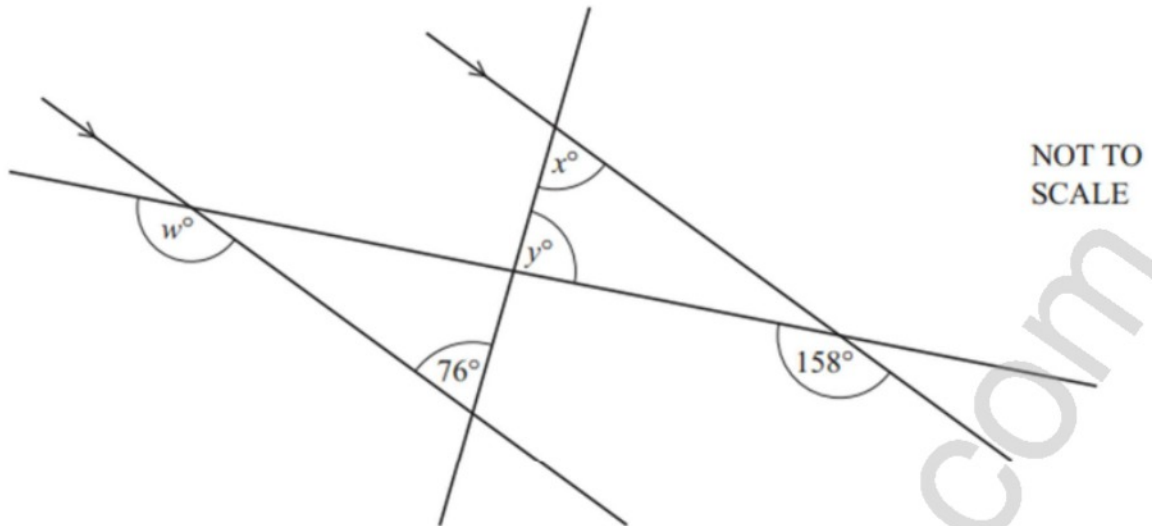
NOT TO
SCALE

The diagram shows a triangle drawn between a pair of parallel lines.

Find the value of x and the value of y .

$x =$

$y =$ [3]



The diagram shows two parallel lines intersecting two straight lines.

Find the values of w , x and y .

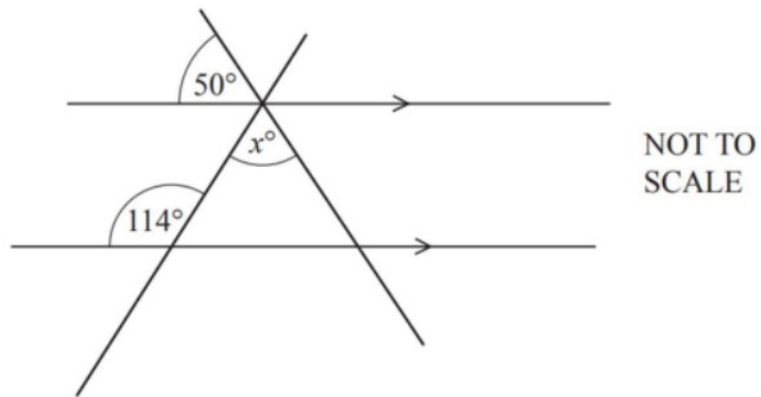
$w =$

$x =$

$y =$

[4]

5

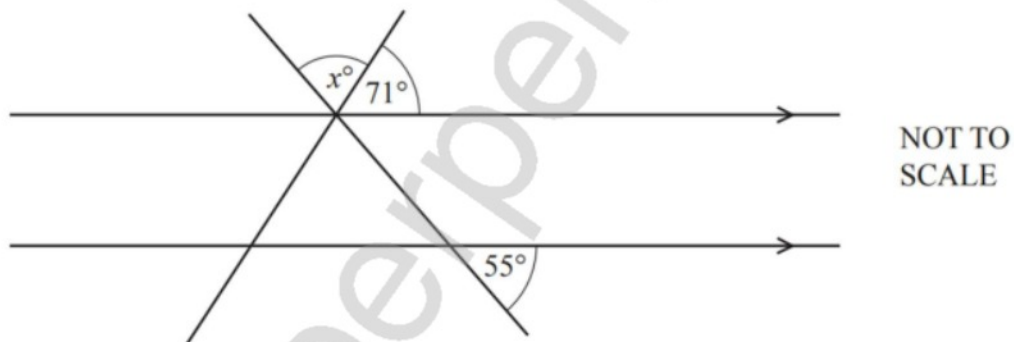


The diagram shows two intersecting straight lines crossing two parallel lines.

Find the value of x .

$x = \dots\dots\dots$ [2]

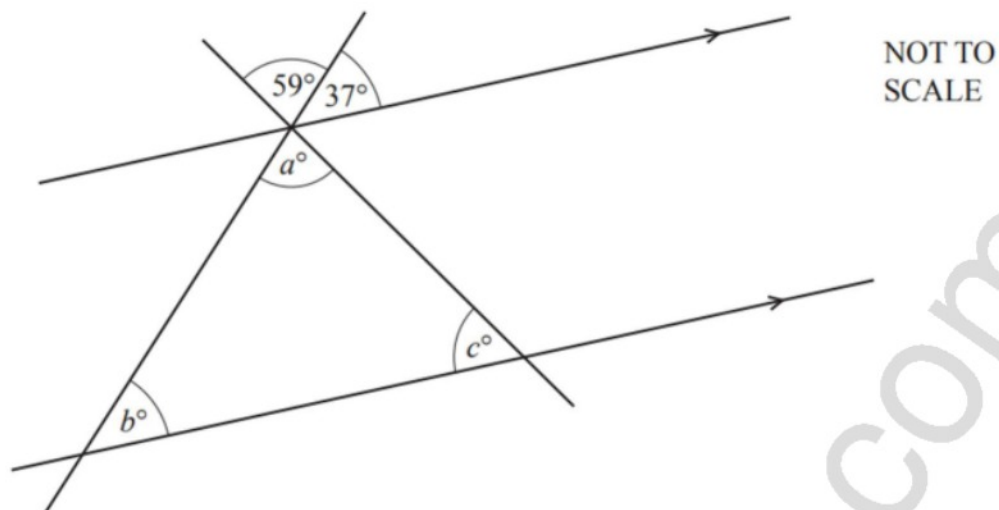
5



The diagram shows two straight lines intersecting two parallel lines.

Find the value of x .

$x = \dots\dots\dots$ [2]



The diagram shows two parallel lines intersected by two straight lines.

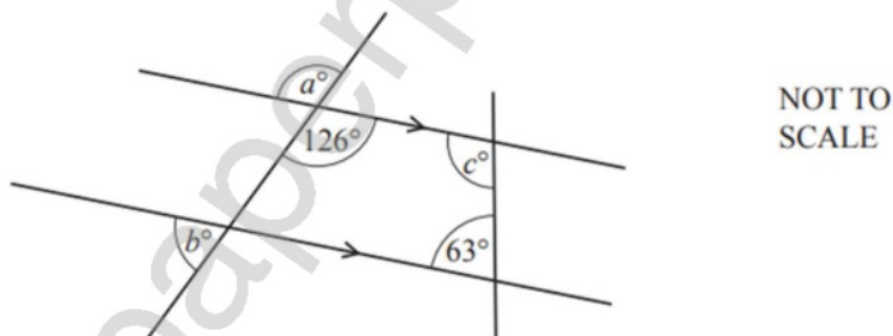
Find the values of a , b and c .

$$a = \dots\dots\dots$$

$$b = \dots\dots\dots$$

$$c = \dots\dots\dots [3]$$

3 (a)



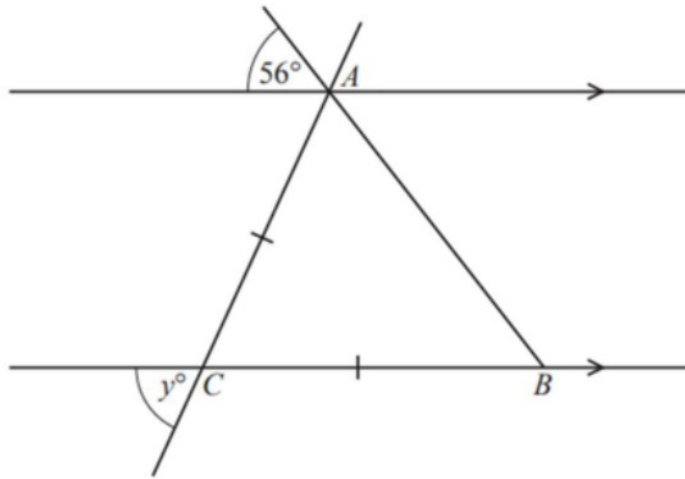
The diagram shows two straight lines intersecting two parallel lines.

Find the values of a , b and c .

$$a = \dots\dots\dots$$

$$b = \dots\dots\dots$$

$$c = \dots\dots\dots [3]$$

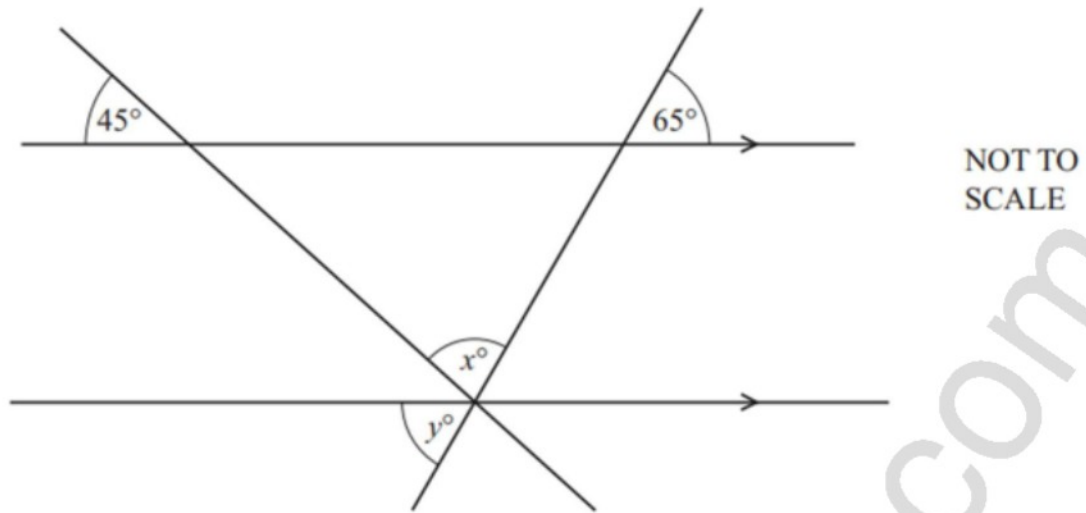


NOT TO
SCALE

In the diagram, A , B and C are points on parallel lines.
 $AC = BC$.

Work out the value of y .

$y = \dots\dots\dots$ [3]



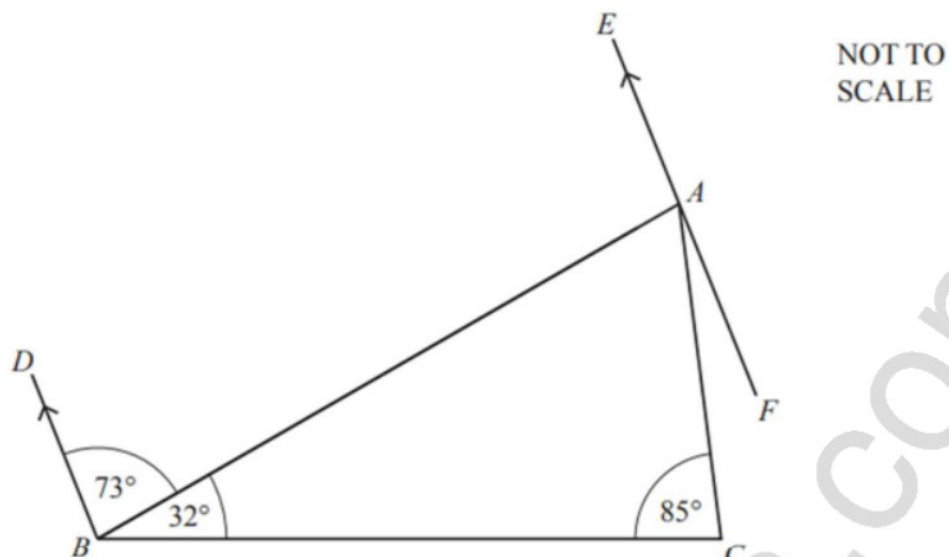
The diagram shows two straight lines intersecting two parallel lines.

Find the value of x and the value of y .

$x =$

$y =$

[3]



BD is parallel to FAE .

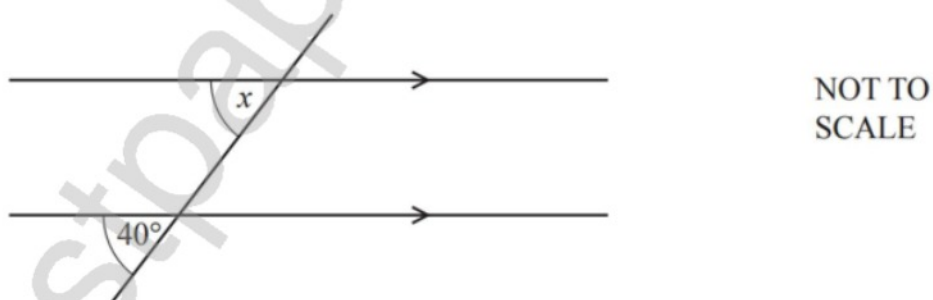
(a) Find angle BAE .

Angle BAE = [1]

(b) Find angle FAC .

Angle FAC = [2]

3



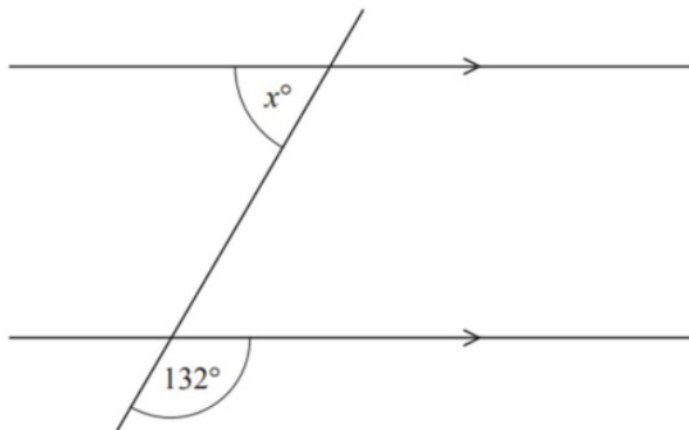
The diagram shows a pair of parallel lines and a straight line.

Complete the statement with the correct geometrical reason.

$x = 40^\circ$ because the angles are

[1]

2

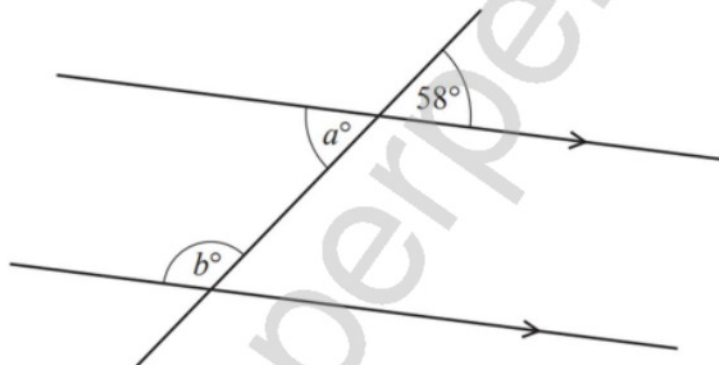
NOT TO
SCALE

The diagram shows two parallel lines intersecting a straight line.

Find the value of x .

$x = \dots\dots\dots$ [2]

3

NOT TO
SCALE

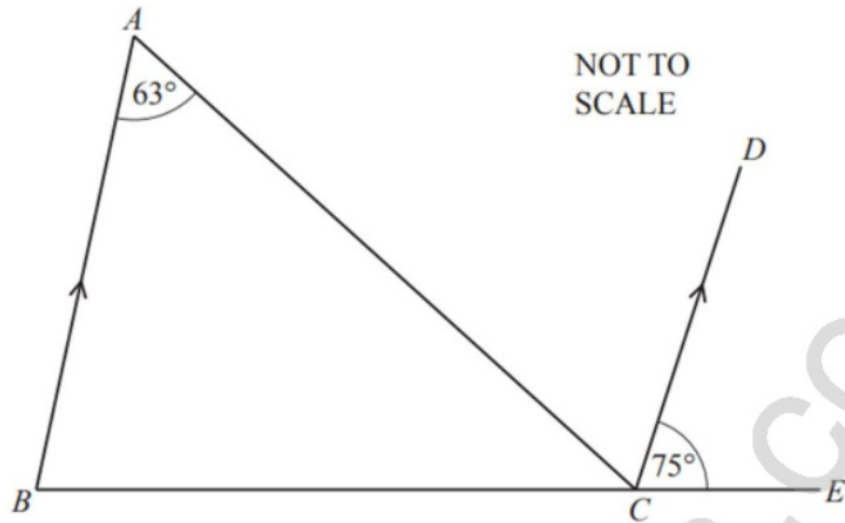
The diagram shows a straight line intersecting two parallel lines.

Find the value of a and the value of b , giving a geometrical reason for each answer.

$a = \dots\dots\dots$ because $\dots\dots\dots$

$b = \dots\dots\dots$ because $\dots\dots\dots$ [4]

6

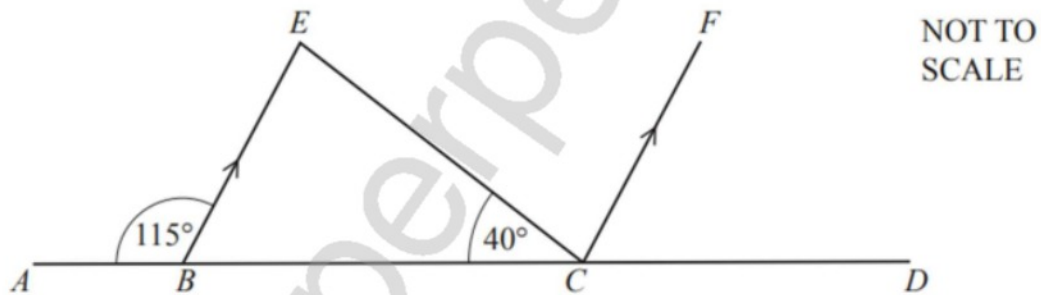


AB is parallel to CD .

Find angle ACD .

Angle $ACD = \dots\dots\dots$ [1]

5



$ABCD$ is a straight line and BE is parallel to CF .

Find angle ECF .

Angle $ECF = \dots\dots\dots$ [2]