Parallel Lines
Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Geometry
Sub-Topic	Parallel Lines
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: **30 minutes**

Score: **/23**

Percentage: **/100**

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

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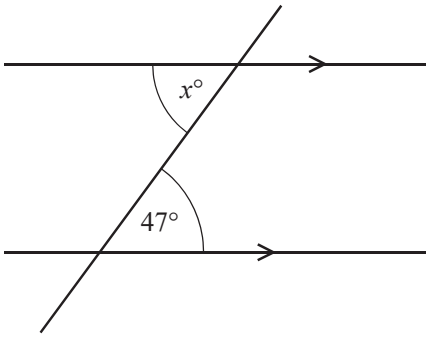
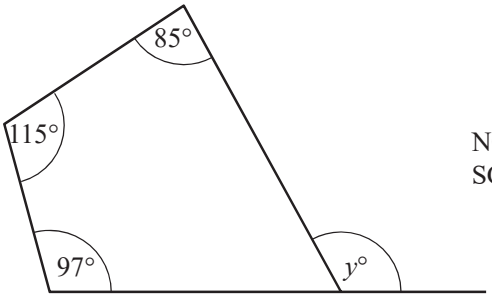
(a)



NOT TO SCALE

Find the value of x. [1]

(b)



NOT TO SCALE

Find the value of y. [2]

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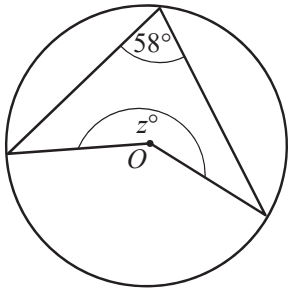
(c)



NOT TO SCALE

The diagram shows a circle, centre O.

Find the value of z.

[2]

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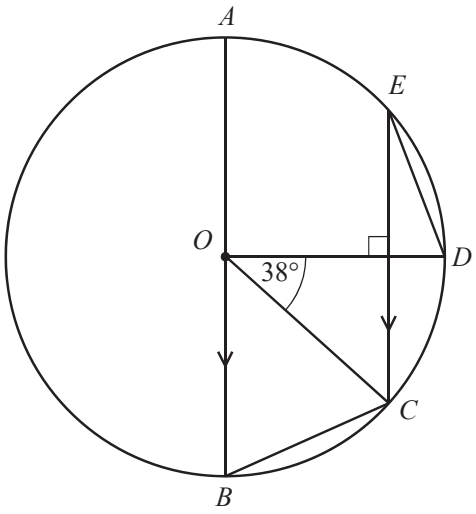

NOT TO SCALE

AB is the diameter of a circle, centre *O*. *C*, *D* and *E* lie on the circle.
EC is parallel to *AB* and perpendicular to *OD*. Angle *DOC* is 38°.

Work out

(a) angle *BOC* , [1]

(b) angle *CBO*, [1]

(c) angle *EDO* . [2]

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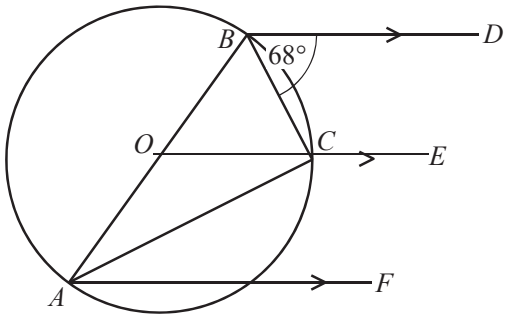
NOT TO SCALE



Points A, B and C lie on a circle, centre O, with diameter AB.
BD, OCE and AF are parallel lines.
Angle $CBD = 68°$.

Calculate

(a) angle BOC,

[2]

(b) angle ACE.

[2]

Question 4

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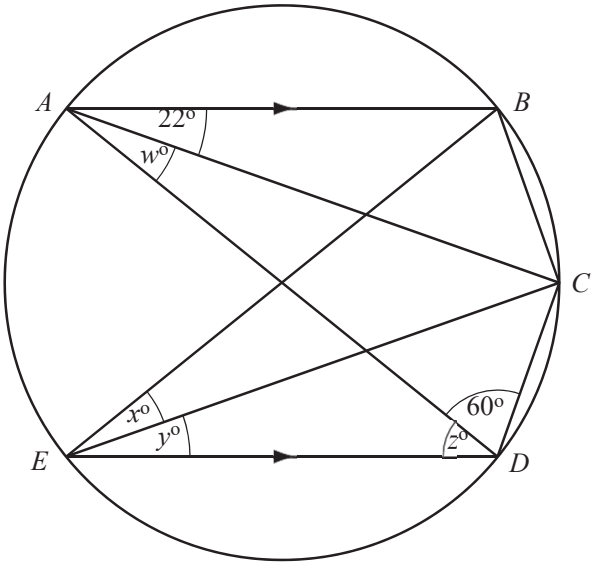

NOT TO SCALE

AD is a diameter of the circle *ABCDE*.
Angle *BAC* = 22° and angle *ADC* = 60°.
AB and *ED* are parallel lines.
Find the values of *w*, *x*, *y* and *z*.

[4]

Question 5

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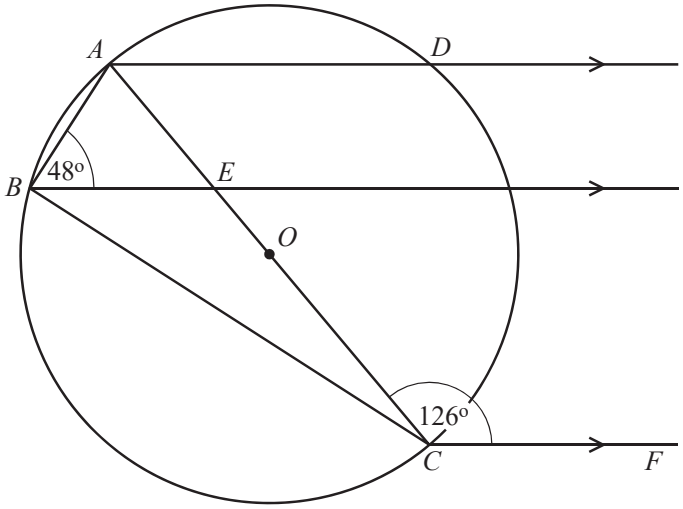

NOT TO SCALE

A, B, C and D lie on a circle centre O. AC is a diameter of the circle.
AD, BE and CF are parallel lines. Angle $ABE = 48°$ and angle $ACF = 126°$.
Find

(a) angle DAE,

[1]

(b) angle EBC,

[1]

(c) angle BAE.

[1]

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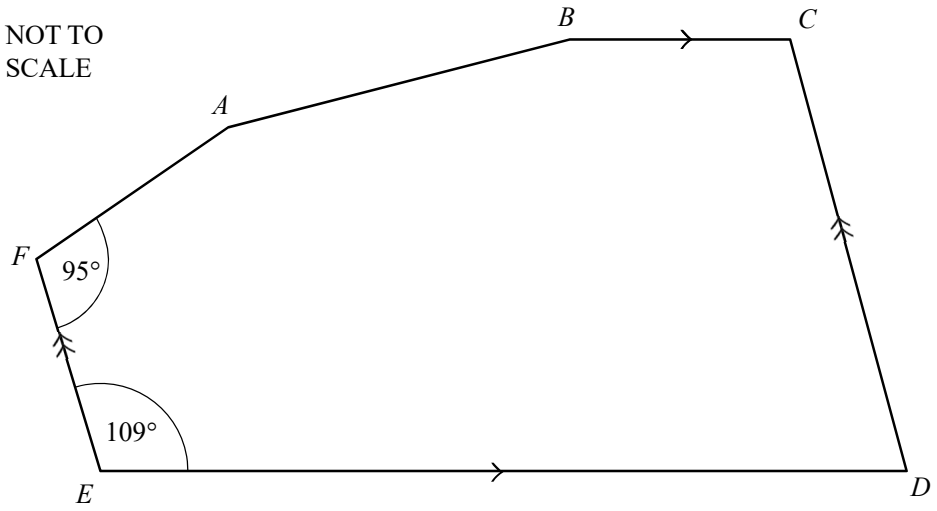

In the hexagon *ABCDEF*, *BC* is parallel to *ED* and *DC* is parallel to *EF*.
Angle *DEF* = 109° and angle *EFA* = 95°.
Angle *FAB* is equal to angle *ABC*.
Find the size of

(a) angle *EDC*,

[1]

(b) angle *FAB*.

[2]