GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 3 - 5)

Corresponding Angles & Alternate Angles

Please write clearly in block capitals

Forename:	
Surname:	

Materials

For this paper you must have:
- mathematical instruments

You *can* use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
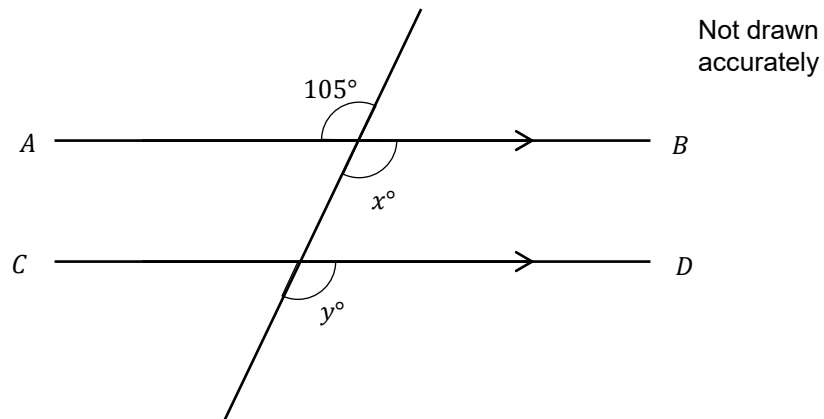
Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1   In the diagram below, AB is parallel to line CD.   *(Level 3)*

Not drawn
accurately

105°

A ————————————→ B

$x°$

C ————————————→ D

$y°$

1(a)   Find the value of x

Give a reason for your answer.

[2 marks]

_____

_____

_____

Answer   _____

1(b)   Find the value of y

Give a reason for your answer.

[2 marks]

_____

_____

_____

Answer   _____

Turn over for next question

4

Turn over ▶

2 In the diagram below, AB is parallel to line CD. *(Level 3)*

Not drawn accurately
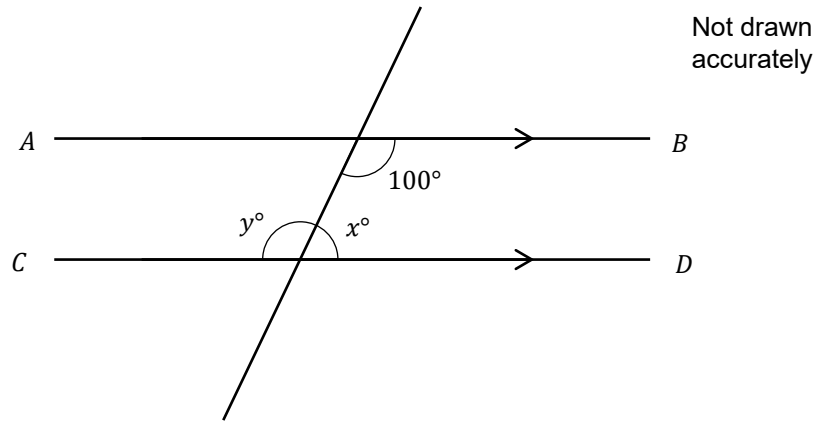
2(a) Find the value of x

Give a reason for your answer.

[2 marks]

_____

_____

Answer _____

2(b) Find the value of y

Give a reason for your answer.

[2 marks]

_____

_____

Answer _____

4

Turn over ▶

3   In the diagram below, AB is parallel to line CD.   *(Level 3)*

Not drawn accurately

A ——————→ B $x°$

105°

C ——————→ D

Find the value of x

Give a reason for your answer.

[3 marks]

Answer _____

3
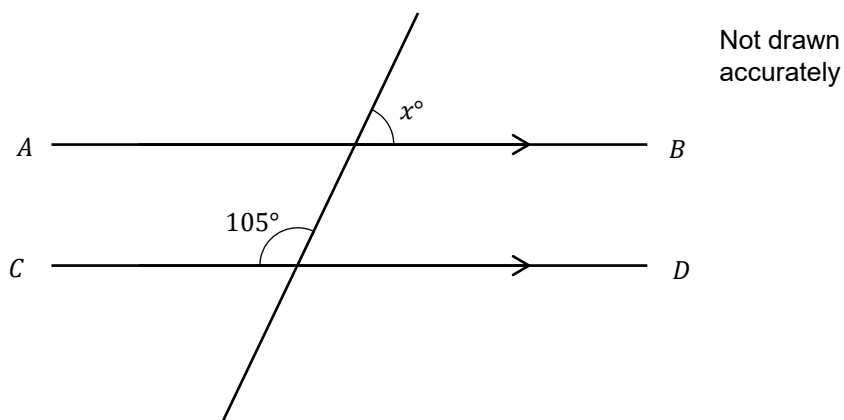
Turn over ▶

4   In the diagram below, AB is parallel to line CD and EF.   *(Level 3)*

Not drawn
accurately
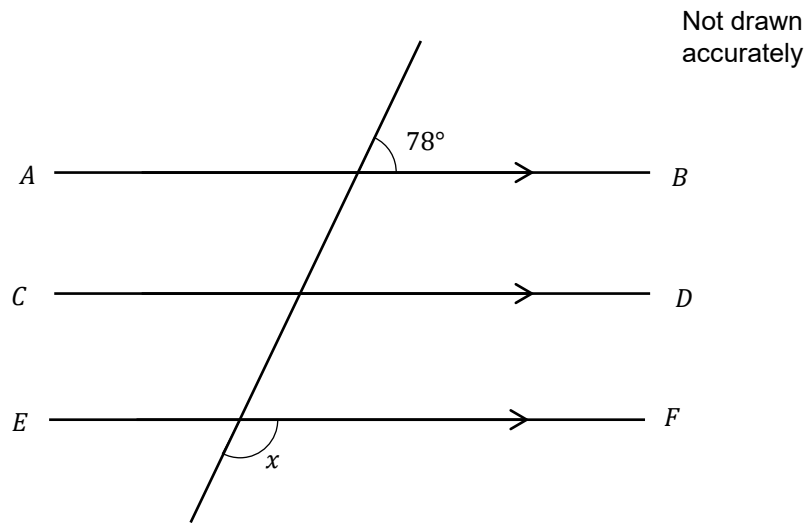
Find the value of x

Give a reason for each step of your answer.

[3 marks]

_____

_____

_____

_____

_____

_____

Answer   _____

Turn over for next question
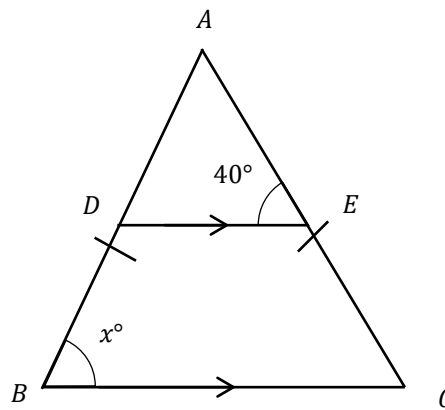
3

Turn over ▶

5 ABC is an isosceles triangle shown below   *(Level 4)*

Lines DE and BC are parallel

$AB = AC$

Not drawn accurately

Find the value of x

Give a reason for each step of your answer.

[3 marks]

_____

_____

_____

_____

_____

_____

Answer _____

3

Turn over ▶

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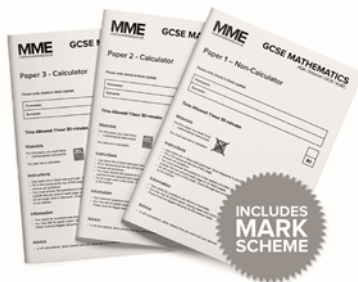
6 The diagram below shows two parallel lines and a rectangle *(Level 4)*

$AB = FE$

$BCED$ is a rectangle

$\angle ABD = 50°$

$\angle DEF = x°$

A ————————————→ B   Not drawn accurately

50°

D

C

x°

F ————————————→ E
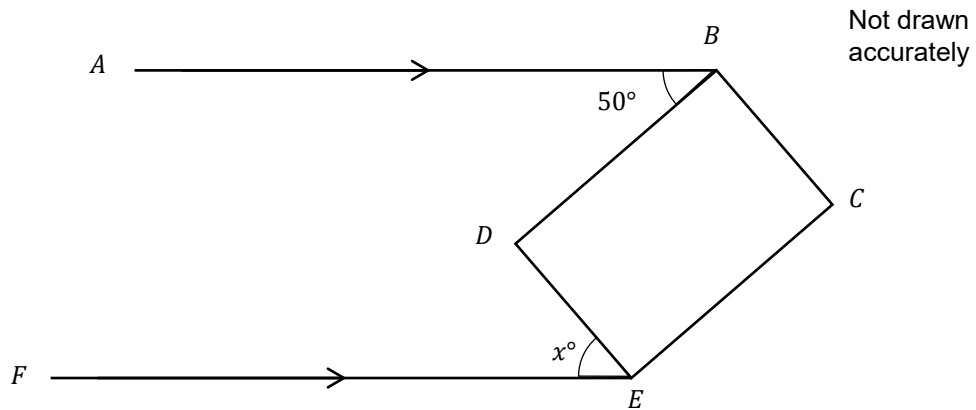
Find the value of x

Give a reason for each step of your answer.

[2 marks]

_____

_____

_____

_____

_____

_____

_____

Answer _____

End of questions

2

END

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