MME

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Interior And Exterior 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.
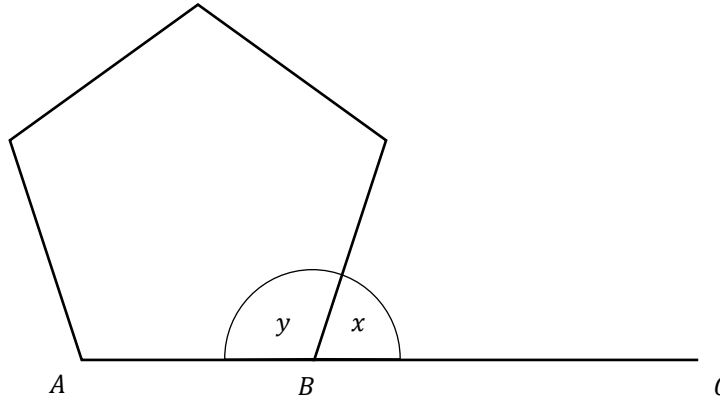
Information

- 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 The diagram below shows a regular pentagon. *(Level 3)*

ABC is a straight line

1(a) Find x

Give a reason for your answer.

[2 marks]

_____

_____

_____

_____

Answer _____

1(b) Find y

Give a reason for your answer.
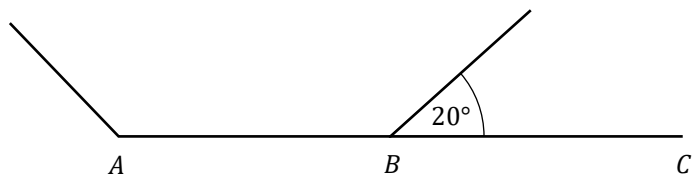
[2 marks]

_____

_____

_____

_____

Answer _____

4

Turn over ►

2 The diagram below shows a regular polygon. *(Level 4)*

The exterior angle is 20°

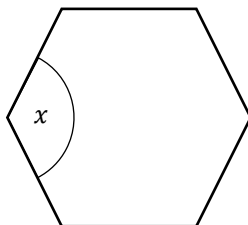Find the number of sides of the polygon shown above.

[2 marks]

Answer _____ sides

3 The diagram below shows a regular hexagon. *(Level 4)*

Find the value of x

[2 marks]

Answer _____

Turn over for next question

4

Turn over ►

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4   The diagram shows a regular hexagon and regular pentagon attached   *(Level 5)*
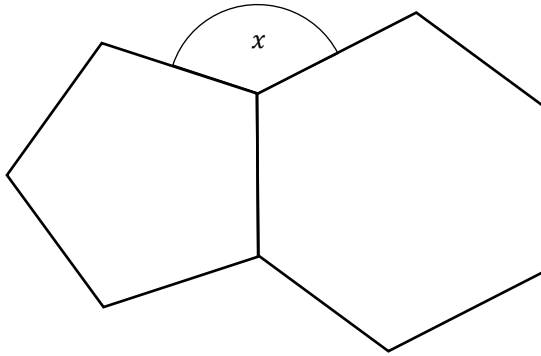
Find the value of x

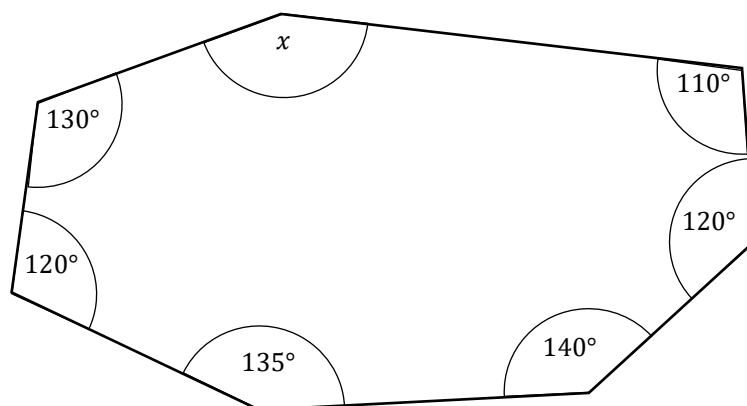You must show all your working.

[2 marks]

Answer _____

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2

Turn over ►

5   The diagram below shows an irregular heptagon   *(Level 4)*

Find the value of x

You must show all your working.

[3 marks]

_____

_____

_____
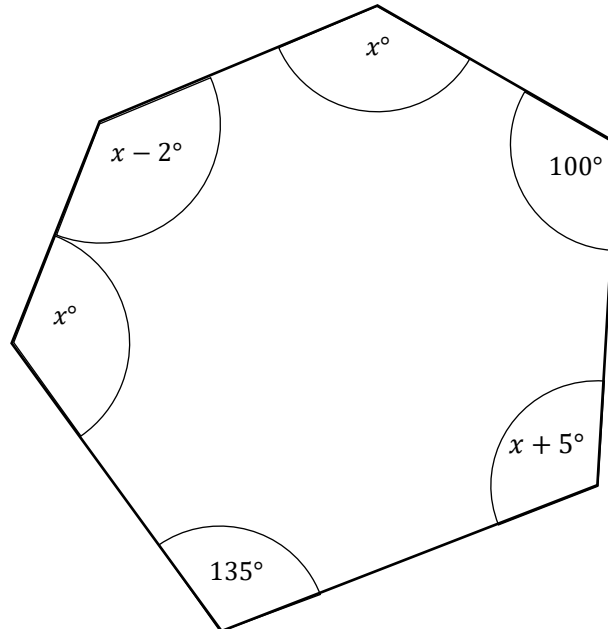
_____

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Answer   _____

Turn over for next question

3

Turn over ▶

6 The diagram below shows an irregular hexagon. *(Level 5)*

Find the value of x

You must show all your working.

[3 marks]

_____

_____

_____

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_____

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_____

Answer _____

End of Questions

3