MME

GCSE MATHEMATICS
AQA | Edexcel | OCR | WJEC

Expanding Triple Brackets

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   Fully expand and simplify $(x + 2)(x + 3)(x + 4)$

[3 marks]

Answer _____

2   Fully expand and simplify $(m - 1)(m + 2)(m + 5)$

[3 marks]

Answer _____

Turn over for next question

6

Turn over ▶

3   Fully expand and simplify $(y - 2)(y - 6)(y - 2)$

[3 marks]

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Answer _____

4   Fully expand and simplify $(3x + 5)(x + 1)(4 + x)$

[3 marks]

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Answer _____

Turn over for next question

6

Turn over ▶

5 Fully expand and simplify $-(2x-3)(x+5)(y+3)$

[3 marks]

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Answer _____

6 A triangular prism is shown below.

The base of the face is $2x - 2$.

The height of the face is $x + 3$.

The length of the prism is $2x + 4$.

$x + 3$

$2x + 4$

$2x - 2$
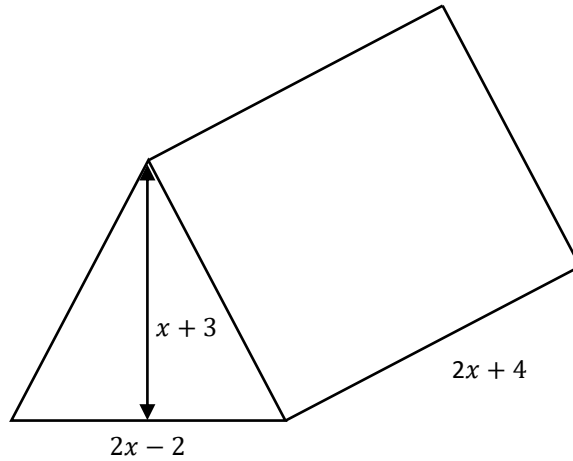
Find an expression, in terms of x, for the volume of the triangular prism.

[5 marks]

Answer _____

End of Questions

END