

Expanding Triple Brackets

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** 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 $(x + 2)(x + 3)(x + 4)$

(Level 5)

[3 marks]

Answer _____

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

(Level 5)

[3 marks]

Answer _____

Turn over for next question

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

(Level 5)

[3 marks]

Answer _____

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

(Level 5)

[3 marks]

Answer _____

Turn over for next question

6

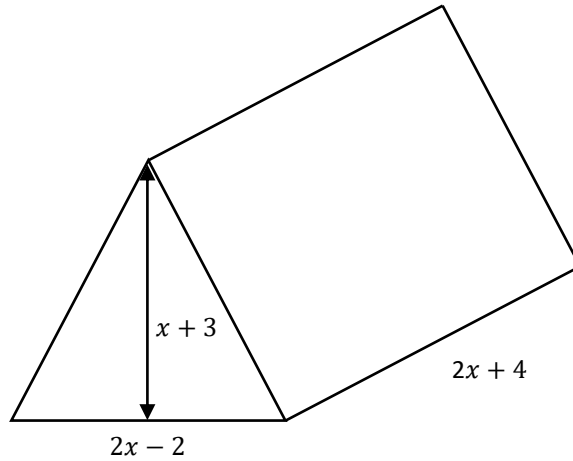
A triangular prism is shown below.

(Level 6)

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

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

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



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

[5marks]

Answer _____

End of questions