Expanding Triple Brackets
Exam Style Questions

1. Expand and simplify $(x + 1)(x + 2)(x + 3)$

…………………….. (3 marks)

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2. Expand and simplify $(2x - 1)(x + 2)(x - 5)$

…………………….. (3 marks)

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3. Expand and simplify $(3x - 1)(2x + 1)(x - 4)$

…………………….. (3 marks)

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4. Expand and simplify $(7x - 1)(x - 3)(2x - 5)$

.... (3 marks)

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5. Expand and simplify $2(x - 1)(x + 1)^2$

.... (3 marks)

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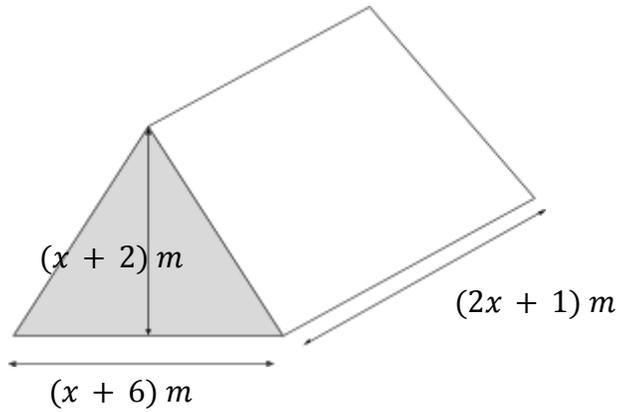6. Expand and simplify $(x - 1)^3$

.... (3 marks)

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7. Below is a triangular prism with base $(x + 6)\, m$, height $(x + 2)\, m$ and width $(2x + 1)\, m$. Show that the volume, V, of the triangular prism is $V = (x^3 + 8.5x^2 + 16x + 6)\, m^3$.

$(x + 2)\, m$

$(2x + 1)\, m$

$(x + 6)\, m$

(4 marks)