

Advanced Higher Maths
SQA 2025 Paper 1
Question 1

Use the binomial theorem to expand $\left(\frac{1}{x} - 3x\right)^4$.
Simplify your answer.

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Answer:

$$\frac{1}{x^4} - \frac{12}{x^2} + 54 - 108x^2 + 81x^4$$