Advanced Higher Maths
SQA 2022 Paper 1
Question 5

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(a) Find, and simplify, the Maclaurin expansion for e^{-4x}, up to and including the term in x^3. **2**

(b) Hence find the first four terms of the Maclaurin expansion of $\frac{3+2x}{e^{4x}}$. **2**

Answers:

(a) $1-4x+8x^2-\frac{32}{3}x^3$

(b) $3-10x+16x^2-16x^3$