Advanced Higher Maths
SQA 2016 Paper
Question 6

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Find Maclaurin expansions for $\sin 3x$ and e^{4x} up to and including the term in x^3.

Hence obtain an expansion for $e^{4x}\sin 3x$ up to and including the term in x^3. **6**

Answers:

$3x-\frac{9}{2}x^3$

$1+4x+8x^2+\frac{32}{3}x^3$

$3x+12x^2+\frac{39}{2}x^3$ ...