

Advanced Higher Maths  
SQA 2025 Paper 2  
Question 16

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Use integration by parts to find

$$\int e^{2x} \sin 5x \, dx.$$

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Answer:

$$\frac{2}{29} e^{2x} \sin 5x - \frac{5}{29} e^{2x} \cos 5x + c$$