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Year 2 (A-Level)

Integration – Set 1A

(Reverse the chain rule, e^x , Partial fractions, $\frac{f'(x)}{f(x)}$ and Trig)

The marks shown are for guidance purposes only
When not specified, round all non-terminating decimals
to 3 significant figures where applicable

Integration

| | |
|------------------------------|--------------------------------|
| $f(x)$ | $\int f'(x) dx$ |
| $\int u \frac{dv}{dx} dx$ | $uv - \int v \frac{du}{dx} dx$ |
| $\int \frac{f'(x)}{f(x)} dx$ | $\ln f(x) + c$ |
| $\int \tan x dx$ | $\ln \sec x + c$ |
| $\int \cot x dx$ | $\ln \sin x + c$ |

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A large rectangular area with a vertical margin line on the left and 28 horizontal lines for writing.