



CHEMISTRY ONLINE
— **TUITION** —

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PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	INTEGRATION
PAPER TYPE:	QUESTION PAPER - 13
TOTAL QUESTIONS	8
TOTAL MARKS	26

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INTEGRATION- 13

1. Evaluate $\int \sin(a + b)x dx$

[3]

2. Evaluate the indefinite integral

$$\int \ln x \times \frac{1}{x} dx$$

[4]

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3. Evaluate the indefinite integral

$$\int (2x + 3)^{1/2} dx$$

[2]

4. Evaluate $\int \tan^2 x dx$

[3]



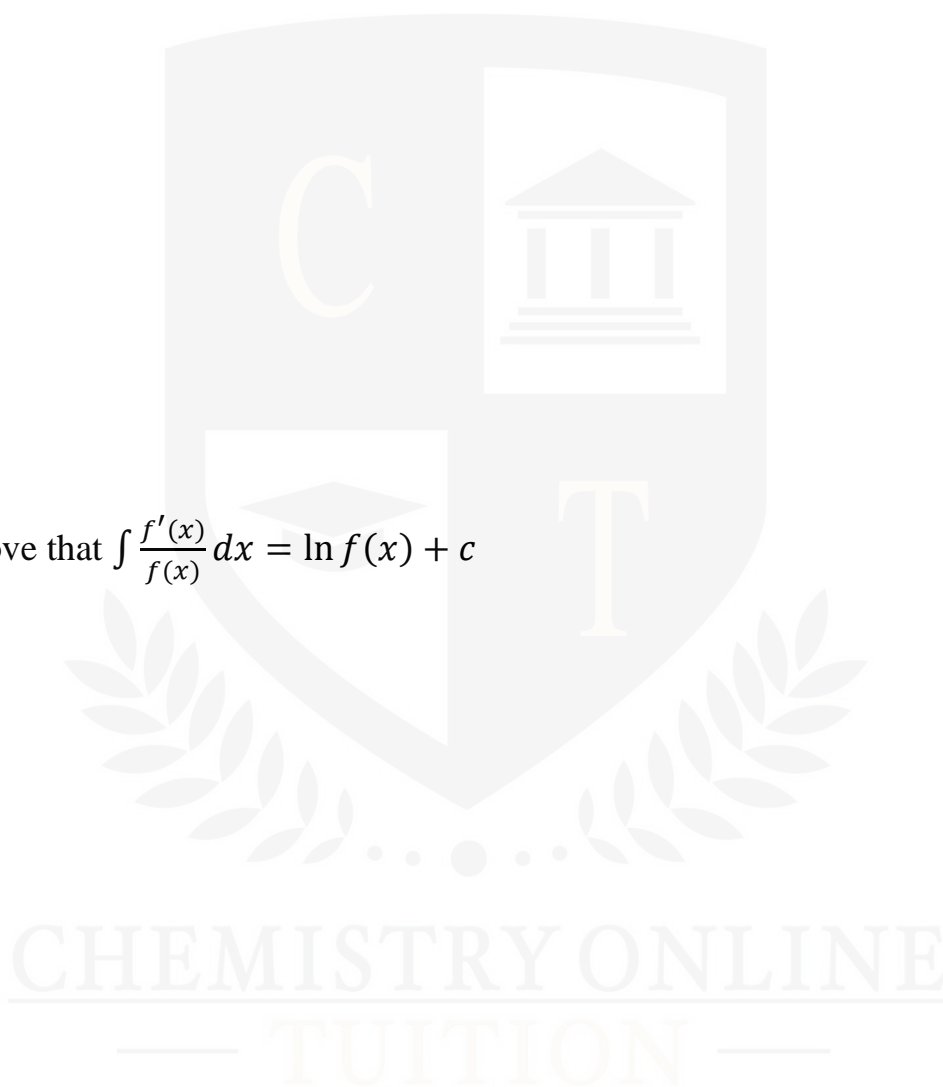
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5. Evaluate $\int \frac{1}{(2x+3)^4} dx$

[2]

6. Prove that $\int \frac{f'(x)}{f(x)} dx = \ln f(x) + c$

[5]



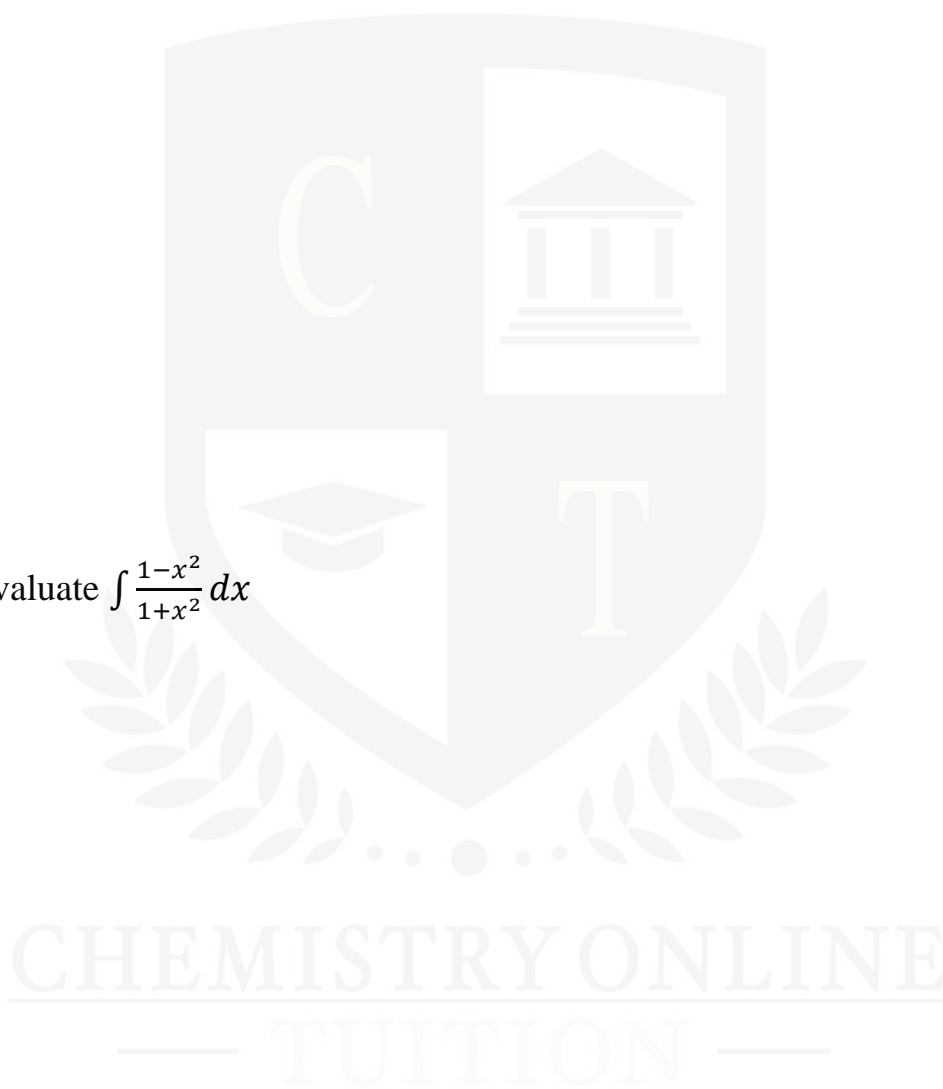
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7. Use differentials to approximate the value of $\sin 61^\circ$.

[4]

8. Evaluate $\int \frac{1-x^2}{1+x^2} dx$

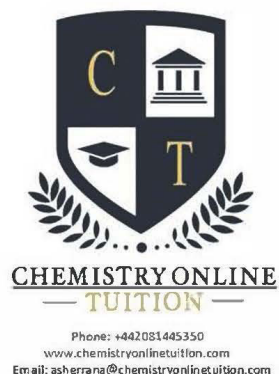
[3]



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DR. ASHAR RANA



- Founder & CEO of Chemistry Online Tuition Ltd.
- Tutoring students in UK and worldwide since 2008
- Chemistry, Physics, and Math's Tutor

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