



CHEMISTRY ONLINE
— **TUITION** —

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PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	INTEGRATION
PAPER TYPE:	QUESTION PAPER - 7
TOTAL QUESTIONS	8
TOTAL MARKS	21

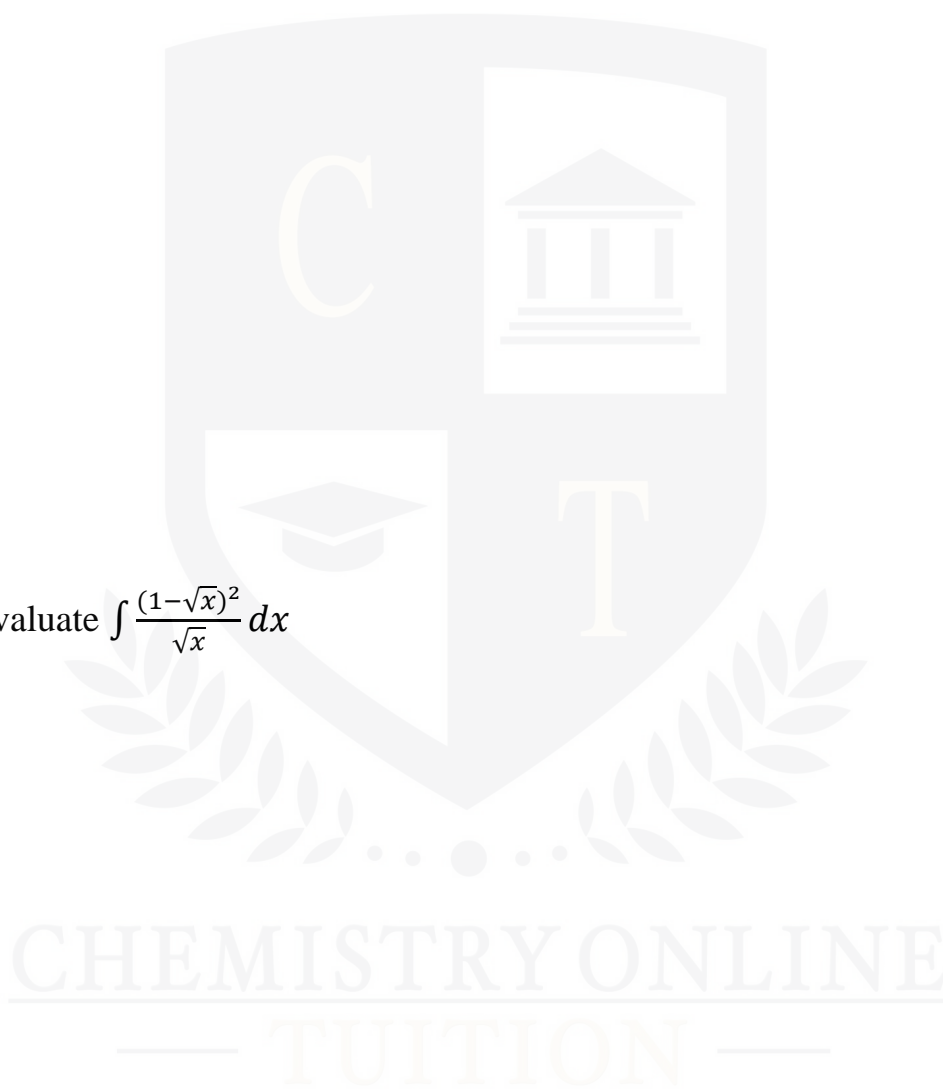
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1. Evaluate $\int \frac{\sqrt{y}(y+1)}{y} dy$

[2]

2. Evaluate $\int \frac{(1-\sqrt{x})^2}{\sqrt{x}} dx$

[3]



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3. Evaluate $\int \frac{(\sqrt{\theta}-1)^2}{\sqrt{\theta}}$

[2]

4. Evaluate the indefinite integral

$$\int \frac{3x+2}{\sqrt{x}} dx$$

[4]



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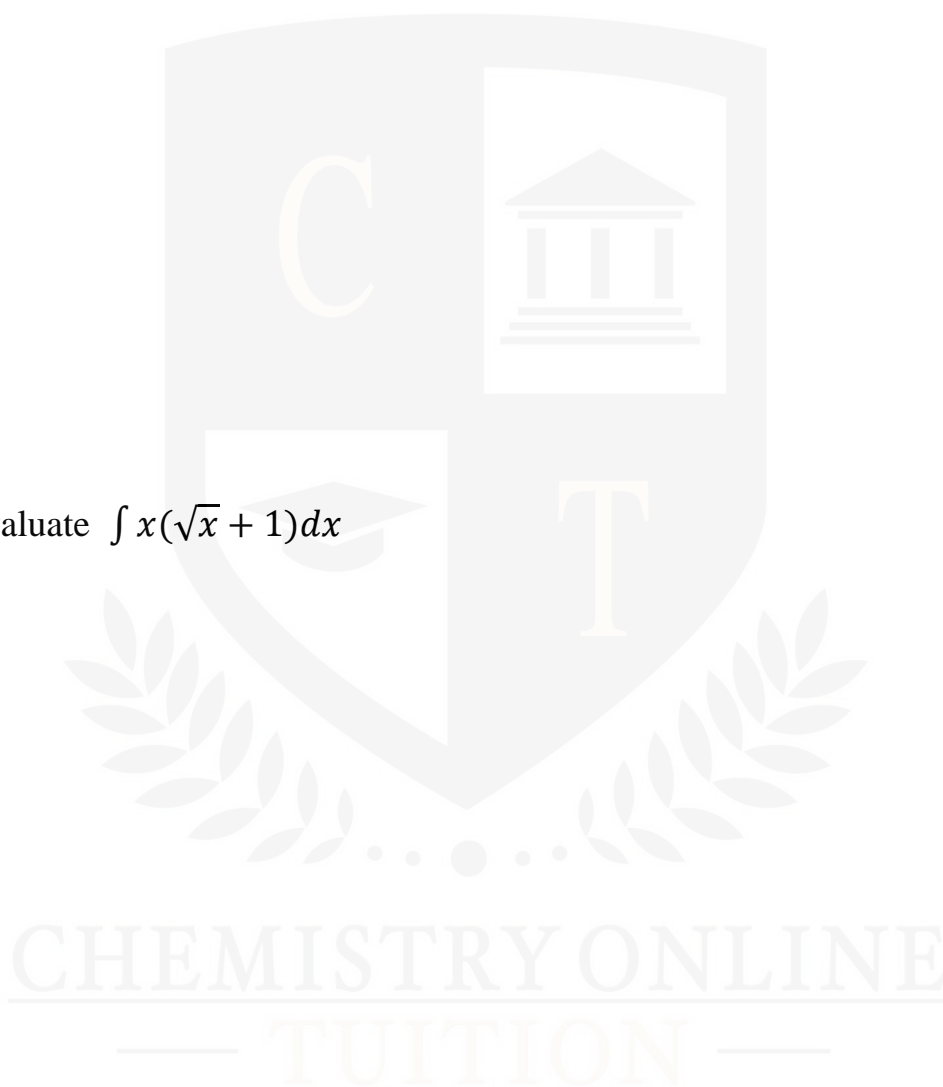
5. Evaluate the indefinite integral

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

[2]

6. Evaluate $\int x(\sqrt{x} + 1) dx$

[3]



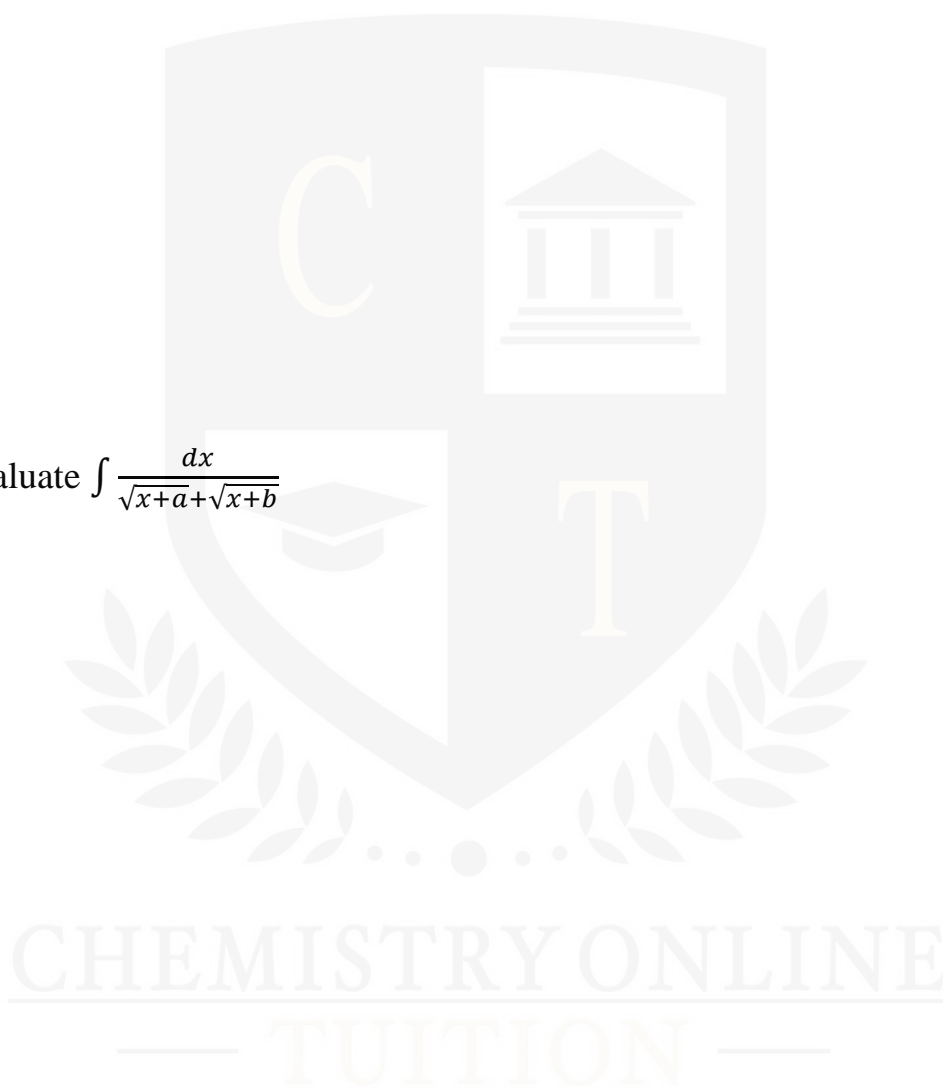
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7. Evaluate $\int (\sqrt{x} - \frac{1}{\sqrt{x}})^2 dx$

[3]

8. Evaluate $\int \frac{dx}{\sqrt{x+a} + \sqrt{x+b}}$

[2]



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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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