

A-Level Practice Test Questions and Answers

1. Find $\int x e^x dx$.

- A) $x e^x - e^x + C$
- B) $x e^x + e^x + C$
- C) $x^2 e^{x/2} + C$
- D) $e^x(x-1) + C$

2. Solve: $e^{(2x)} = 5$

- A) $x = \ln 5/2$
- B) $x = \ln 5$
- C) $x = 2 \ln 5$
- D) $x = \ln(5/2)$

3. What is a zwitterion?

- A) A molecule with only negative charges
- B) A dipolar ion having both positive and negative charges simultaneously, as in amino acids at their isoelectric point
- C) A molecule with no charge
- D) An ion with a triple charge

4. Evaluate $\int (2x + 3) dx$

- A) $2x^2 + 3x + C$
- B) $x^2 + 3x + C$
- C) $x^2 + 3 + C$
- D) $2x + 3x + C$

Answers: 1-A 2-A 3-B 4-B

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