Quiz #4 CHEM 3PC3

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Quiz #4 October 7, 2025

Name:	
Student Number:	

SUBMISSION INSTRUCTIONS — READ CAREFULLY

To receive full credit, you must follow these steps:

- 1. Answer all the questions.
- 2. Write your solutions on new, separate pages. Do not write your solutions in the margins of this paper.
- 3. At the top of each solution page, clearly write the corresponding question number (e.g., "Question 5"). If you use more than one page for a question, write the question number on each page (e.g., "Question 5 (Page 1 of 2)").
- 4. If you cannot solve a question, still attach a page with the question number and write "Blank" or "No Answer" to indicate you attempted it.
- 5. If you are unsure of a complete answer, still attempt the question: attach a page with the question number and write down any relevant thoughts, formulas, or initial steps. Partial credit may be awarded for demonstrated effort and correct reasoning, whereas a blank answer will receive no credit.
- 6. Show all your work clearly and legibly. Unorganized or illegible work may not receive credit.

1 Problems

1. Do the following integrals:

a. $\int_0^\pi \sin^3(x) dx$ b. $\int_0^\pi x \sin^3(x) dx$ c. $\int_0^1 \ln(x) dx$ d. $\int_0^{10} \frac{1}{V^{1.5}} dV$