Dear Students,

The prerequisite for this semester's Engineering Mathematics syllabus relies heavily on your prior knowledge of differentiation and integration techniques.

Assignment Requirements:

You are required to solve 25 questions on differentiation and integration, focusing on the following areas:

Differentiation:

1. Solve **10 problems** on product rule, quotient rule, and chain rule involving trigonometric functions and algebraic expressions.
2. Solve **5 problems** on implicit differentiation.

Integration:

1. Solve **5 problems** involving trigonometric functions and algebraic expressions.
2. Solve **5 problems** on integration by parts using the DI technique specifically.

Please note, there are **numerous resources online** and on **YouTube** for these topics. Each student must solve unique problems; solving identical problems **will result in an automatic score of zero.** This assignment will contribute to your **continuous assessment (CA)** and to the **foundational differentiation and integration test.**

Submission Guidelines:

- Complete all work neatly on **A4-sized paper.**
- Ensure **your name, registration number, and department** are clearly stated on the assignment.

Additional Instructions:

You are expected to thoroughly learn and understand these techniques. A test of 10 questions on the topics above will be conducted on the first day of class.

Submission Deadline:
Wednesday at 1:30 PM. **No proxy submissions** will be accepted.

Kindest regards,

Leonard Yommie Sesay.