

# MA2008B: Assignment 03

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Period 03

## Instructions

- Show all your work for full credit.
- Write your answers clearly and neatly.
- Submit your assignment by the due date.

## Problems

**Problem 1.** (Sample Problem) Solve for  $x$ :

$$2x + 5 = 13$$

**Problem 2.** Compute the derivative of  $f(x) = x^3 + 2x^2 - x + 7$ .

**Problem 3.** Evaluate the integral:

$$\int_0^1 (3x^2 + 2x) dx$$

**Problem 4.** Prove that if  $a > b$  and  $b > c$ , then  $a > c$ .