

Name: _____ Student Number: _____

Mathematics 1110H, TRENT UNIVERSITY, Fall 2025.

Test #5 for Section F01 and CAT. *Friday, 28 November.* Time: 30 minutes.

Instructions

- Write your name and student number at the top.
- Use only this sheet of paper, including the back side. If you need more paper, ask for it.
- You may use an aid sheet, A4- or letter-size with whatever you want written on all sides, and a calculator, with no restrictions beyond not being able to communicate with other devices.
- **Do any four (4) of questions 1–6.**

$$\begin{array}{lll} \text{1. } \int \cos(2x + 1) dx & \text{2. } \int x e^{-x} dx & \text{3. } \int_0^{\pi/4} \cos(2x) dx \\ \text{4. } \int_e^{e^e} x \ln(x) dx & \text{5. } \int x \sqrt{1 - x^2} dx & \text{6. } \int_0^2 (2x + e^x) dx \end{array}$$

