Name:	Student Number:	

Mathematics 1110H, TRENT UNIVERSITY, Fall 2025.

Test #5 for Sections F02 and F04. 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.

1.
$$\int_0^3 (x - 1(x+3) dx$$
 2. $\int xe^{x-1} dx$ 3. $\int_0^{\pi/8} \tan(2x) dx$ 4. $\int_0^{\pi/2} \frac{\cos(x)}{1 + \sin^2(x)} dx$ 5. $\int \frac{x}{\sqrt{41 - x^2}} dx$ 6. $\int_0^1 4xe^{x^2} dx$