Name:	Student Number:	

Mathematics 1110H, TRENT UNIVERSITY, Fall 2025

Test #1 for Sections F03 and F05. Friday, 26 September. Time: 20 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 two (2) of questions 1–3. If you do all three and don't cross one out, only the first two encountered by the graders will be marked.
- 1. Find the x-intercepts and the location of the tip of the parabola $y = x^2 6x 7$. [5]
- **2.** Use the ε - δ definition of limits to verify that $\lim_{x\to 3} (3x+3) = 12$. [5]
- **3.** Use the practical rules for computing limits to compute $\lim_{x\to -1} \frac{x^2-4x-5}{x^2-7x-8}$. [5]