

Mathematics 1110H – Calculus I: Limits, Derivatives, and Integrals

TRENT UNIVERSITY, Summer 2023 (S61)

Quiz #1

Due just before midnight on Tuesday, 9 May.*

Do both of the following questions.

1. Use the ε - δ definition of limits to verify that $\lim_{x \rightarrow 3} (4 - 2x) = -2$. [3]
2. Compute $\lim_{x \rightarrow 1} \frac{x^3 - 1}{x - 1}$ using algebra and the limit laws. [2]

* You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If this fails, you may submit your work to the instructor on paper or by email to sbilaniuk@trentu.ca.