

Mathematics 1110H (Section B) – Calculus I: Limits, Derivatives, and Integrals
TRENT UNIVERSITY, Fall 2023

Quiz #3

Limits

Due just before midnight on Wednesday, 27 September.*

REMINDER. While you are allowed to work together and look things up when doing the quizzes and assignments, your submission should be written up entirely by yourself, giving credit to any collaborators or sources that you ended up actually using.

1. Using the practical rules for computing limits, find $\lim_{x \rightarrow -3} \frac{4x^2 - 36}{x + 3}$. [2.5]
2. Use the ε - δ definition of limits to verify that your answer to question 1 is correct. [2.5]

* You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If submission via Blackboard fails, please submit your work to your instructor by email or on paper.