

Mathematics 1120H – Calculus II: Integrals and Series

TRENT UNIVERSITY, Summer 2020

Quiz #2

Tuesday, 30 June.

Available on Blackboard from 12:01 a.m. on Tuesday, 30 June.

Due on Blackboard by 11:59 p.m. on Tuesday, 30 June.

Solutions will be posted on Thursday, 2 July.

Scans of photos of handwritten work are entirely acceptable so long as they are legible and in some common format; solutions submitted as a single pdf are preferred, if you can manage it. If you can't submit your solutions via Blackboard's Assignments module for some reason, please email them to the instructor at: sbilaniuk@trentu.ca

1. Compute $\int [\ln(x)]^2 dx$. Show all your work. [2.5]
2. Suppose $f(x)$ is a function that is defined and integrable on the interval $[a, b]$. Verify that $\int_a^b f(x) dx = \int_a^b f(a + b - x) dx$. Show all your work. [2.5]

Enjoy Canada Day!