## Mathematics 1110H - Calculus I: Limits, Derivatives, and Integrals

TRENT UNIVERSITY, Summer 2023 (S61)

## Quiz #10 Integration

Due\* just before midnight on Thursday, 8 June.

Please show all your work when answering the questions below. Do them by hand, please! Feel free to check your work using SageMath, though.

1. Work out 
$$\int \frac{e^{2x}}{\sqrt{e^x + 1}} dx$$
. [2.5]

**2.** Compute 
$$\int_1^2 \frac{1}{\sqrt{x+1} + \sqrt{x-1}} dx$$
. [2.5]

<sup>\*</sup> 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.