

Mathematics 1110H – Calculus I: Limits, Derivatives, and Integrals
TRENT UNIVERSITY, Fall 2025
Workshop Problems for 2025-11-28

Some more problems like those that could turn up on Test #5. These are on the easy side.

- $\int_2^4 \frac{x^2 - 2x + 1}{x - 1} dx$ [Simplify the integrand by cancelling $x - 1$.]
- $\int \ln(x) dx$ [Parts with $u = \ln(x)$ and $v' = 1$.]
- $\int \frac{8x}{1 + x^2} dx$ [Substitute for $1 + x^2$.]
- $\int_{\pi/4}^{\pi/2} \frac{\cos(x)}{\sin(x)} dx$ [Substitute for $\sin(x)$.]