

Department of Mathematics and Statistics

Math 102 Semester (141) Quiz 4

Name

ID #

Sec.#06

Evaluate the following integrals

$$\text{Q1) } \int \frac{\operatorname{sech}^2(\ln t)}{t} dt \quad (3)$$

$$\text{Q2) } \int_0^{\pi/4} \left(\frac{1}{2} \right)^{\tan t} \sec^2 t dt \quad (4)$$

$$\text{Q3) } \int \frac{\ln x}{x \sqrt{\ln^2 x + 1}} dx \quad (3)$$