

MATH 152 Quiz 1

Class time:

Name:

Student number:

Show all work. 5 points each.

1) Find the derivative of $f(x) = x \ln(x^2 + 1)$ and state which differentiation rules you use. (i.e., quotient rule, product rule, chain rule)

2) Use integration by parts to evaluate the integral. Be sure to label the u and the dv or include a table for the column integration. Simply a numeric answer is worth only 1 pt.

$$\int_0^1 \frac{2x + 1}{e^x} dx$$