

MATH 152 Quiz 1

Name:

Class time:

Student number:

Show all work. 5 points each.

1) Find the derivatives and state which differentiation rules you use. (i.e., quotient rule, product rule, chain rule)

$$y = 10e^{3x^2} \text{ and } f(x) = 3x \ln(x^2)$$

2) Evaluate the integrals. Indicate what u substitution you use.

$$\int \frac{x+3}{(x^2+6x)^2} dx$$