

# Math151 - Calculus I - Winter 2005

## Quiz #5, February 14, 2005

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get the full credit.

Find  $dy/dx$ :

(a)  $y = \log_2 \left( \frac{1}{\sin 2x} \right)$

(b)  $y = \frac{(x-1)^3(2-x)^5}{(2-8x)\sqrt[3]{2x-1}}$

(c)  $x + \sin^{-1}(xy) = e^y$