

Quiz 3
Math 101, Term 161

NAME:

ID:

Problem 1. Find y' :

a. $y = 2^{\sin(x^2)}$

b. $y = \log_5(\tan^2 x + 3)$

c. $y = \cot(\ln x)$

d. $y = \cos^{-1}(e^{-x})$

e. $y = \tan^{-1} \frac{x}{x-2}$

Problem 2. Find $\frac{dx}{dy}$, where $e^y = (x + 1)^{\sin x}$.