

Name

ID#

Q1) Find the derivative of following functions

(a)  $\ln \cos e^x$

(b)  $\log_{\ln x} e$

Q 2) Use the logarithmic differentiation to find derivative of the following

(a)

$$y = \frac{x^2 \cdot 8^{1/3} \sqrt{x^3 - 1}}{x^6 \cdot 7x \cdot 5}$$

(b)

$$y = x \tan x$$

