

10/4/2000  
Dr. Lunsford

MA303 Calculus I  
Quiz 8

Name: \_\_\_\_\_  
(20 Points Total)

Find the indicated derivatives. Clearly indicate your answers. You do not need to simplify your answers. (4 points each)

(a)  $f(x) = \sec 4x$

$$f'(x) =$$

(b)  $y = (t^3 - 3t + 1)^5 \cos 3t$

$$\frac{dy}{dt} =$$

(c)  $f(x) = \left( \frac{1}{x^2 - 3x} \right)^{-2}$

$$\frac{d}{dx} f(x) =$$

(d)  $y = \sin^3(6x)$

$$D_x y =$$

(e)  $y = \frac{1}{\sqrt{1-x}}$

$$\frac{d^2 y}{dx^2} =$$