

MATH 1850 Sec 011 and 012

CALCULUS I

QUIZ 5

October 5, 2010

Name (Last, First) _____

1. Find the derivative of the function

$$y = \sqrt[7]{x^2} - x^e$$

$$y' = \frac{2}{7}x^{\frac{2}{7}-1} - ex^{e-1}$$

$$y' = \frac{2}{7}x^{-\frac{5}{7}} - ex^{e-1}$$

2. Find dy/dx

$$y = (\sec x + \tan x)(\sec x - \tan x)$$

$$y = \sec^2 x - \tan^2 x = 1$$

$$\frac{dy}{dx} = 0$$