

Calculus I
TA/classroom: _____

Name: _____
Student ID: _____

Quiz 6

Nov. 14, 2007

1. (10 pts) Find the derivative of

$$f(x) = \ln \sqrt{x^{10} e^{2x} (x^2 + 1)}$$

2. (10 pts) Given the curve $y^3 - x^2 = 7$. Find $\frac{dy}{dx}$ implicitly. What is the equation of the tangent line at $(2, 1)$.