

Quiz 6A, Business Calculus

Fall 2012

Name: _____

1. (4 points) Find the derivative of

$$f(x) = \ln\left(\frac{(x-6)^7}{3x^2+5}\right).$$

Simplify your answer.

2. (3 points) The price of Angry Bird stuffed animals is given by $p(t) = 6 + 4e^{-2t}$, where p is measured in dollars and t in months.
- (a) At what rate is the price changing after 3 months?

3. (3 points) Evaluate the indefinite integral (i.e. find the antiderivative): $\int (7 + \frac{x^2}{x^4} + e^x) dx$.