

**“QUIZ” for Oct. 2, 2008**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. Use the rules of differentiation to calculate  $f'(x)$  (Do not simplify your answer).

$$f(x) = \frac{e^{\frac{1}{x+1}}}{e^x + 11}$$

2. Find the equation of the tangent line at the point  $(1, 1)$  to the curve defined by the equation

$$x^2 + 3xy + y^2 = 5 \quad .$$