Quiz	8
Q GIL	\circ

Math 1220–7 November 30, 2012

Directions: Show all work for full credit. Clearly indicate all answers. Simplify all mathematical expressions completely. No calculators are allowed on this quiz.

1. Find the Maclaurin Series for $f(x) = e^{-x}$. Include terms through at least the x^3 term. (25 points)

2. Find the Taylor Polynomial in $\left(x - \frac{\pi}{3}\right)$ of order 2 for the function $f(x) = \cos x$. (25 points)

3. Find a good (upper) bound for $\left|\frac{c+2}{c+3}\right|$, where $c \in [0,2]$. (10 points)