Quiz 8
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)
